

Service  
Service  
**Service**



# Service Manual



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**CLASS 1  
LASER PRODUCT**



**PHILIPS**

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## SERVICE AIDS

### Service Tools:

Universal Torx driver holder .....	4822 395 91019
Torx bit T10 150mm .....	4822 395 50456
Torx driver set T6-T20 .....	4822 395 50145
Torx driver T10 extended .....	4822 395 50423

### Compact Disc:

SBC426/426A Test disc 5 + 5A .....	4822 397 30096
SBC442 Audio Burn-in test disc 1kHz .....	4822 397 30155
SBC429 Audio Signals disc .....	4822 397 30184
Dolby Pro-logic Test Disc .....	4822 395 10216




### WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.  
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

### ESD



Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used

Safety components are marked by the symbol .

**CLASS 1  
LASER PRODUCT**

## INFORMATION ABOUT LEAD-FREE SOLDERING

Philips CE is producing lead-free sets from 1.1.2005 onwards.

### IDENTIFICATION:

Regardless of special logo (not always indicated) one must treat all sets from 1 Jan 2005 onwards, according next rules:



- On our website [www.atyourservice.ce.Philips.com](http://www.atyourservice.ce.Philips.com) you find more information to:
  - \* BGA-de-/soldering (+ baking instructions)
  - \* Heating-profiles of BGAs and other ICs used in Philips-sets
  - \* Lead free

You will find this and more technical information within the "magazine", chapter "workshop news".

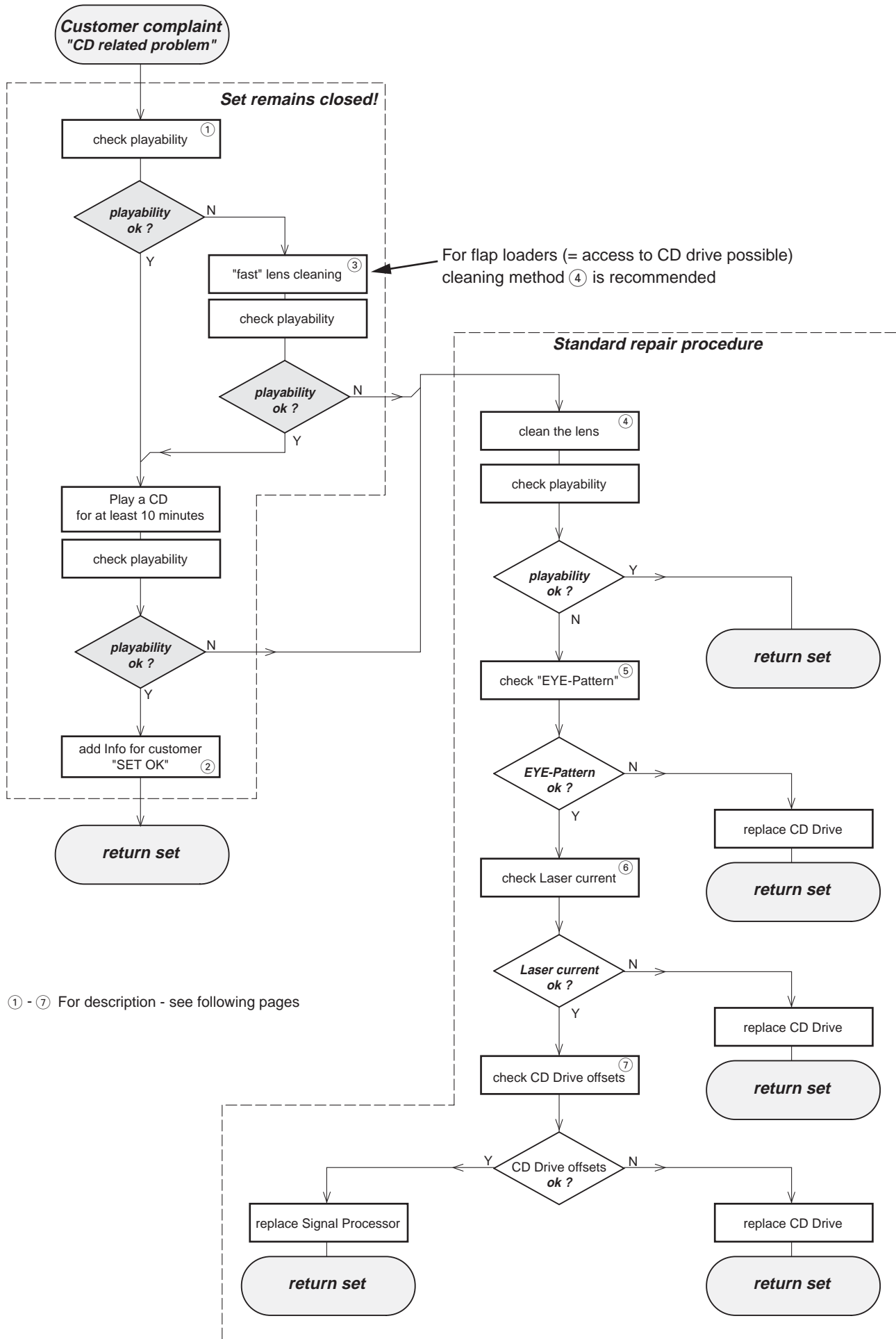
For additional questions please contact your local repair-helpdesk.

## SERVICE INSTRUCTION

Safety regulations require that after a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the AC Power lead for external damage.
- Check the strain relief of the AC Power cord for proper function.
- Check the electrical DC resistance between the AC Power Plug and the secondary side (only for sets which have a AC Power isolated power supply):
  1. Unplug the AC Power cord and connect a wire between the two pins of the AC Power plug.
  2. Set the AC Power switch to the "on" position (keep the AC Power cord unplugged!).
  3. Measure the resistance value between the pins of the AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be larger than 4.5 Mohm (For U.S. it should be between 4.2 Mohm and 12 Mohm).
  4. Switch "off" the set, and remove the wire between the two pins of the AC Power plug.
- Check the cabinet for defects, to avoid touching of any inner parts by the customer.

# CD PLAYABILITY CHECK





## CD PLAYABILITY CHECK

①

### PLAYABILITY CHECK

For sets which are compatible with **CD-RW** discs  
 use CD-RW Printed Audio Disc.....7104 099 96611  
 TR 3 (Fingerprint)  
 TR 8 (600µ Black dot) **maximum at 01:00**

- playback of these two tracks without audible disturbance  
 playing time for: Fingerprint  $\geq 10$ seconds  
 Black dot from 00:50 to 01:10
- jump forward/backward (search) within a reasonable time

For all other sets  
 use CD-DA SBC 444A.....4822 397 30245  
 TR 14 (600µ Black dot) **maximum at 01:15**  
 TR 19 (Fingerprint)  
 TR 10 (1000µ wedge)

- playback of all these tracks without audible disturbance  
 playing time for: 1000µ wedge  $\geq 10$ seconds  
 Fingerprint  $\geq 10$ seconds  
 Black dot from 01:05 to 01:25
- jump forward/backward (search) within a reasonable time

②

### CUSTOMER INFORMATION

It is proposed to add an addendum sheet to the set which informs the customer that the set has been checked carefully - but no fault was found.  
 The problem was obviously caused by a scratched, dirty or copy-protected CD. In case problems remain, the customer is requested to contact the workshop directly.  
 The lens cleaning (method ③) should be mentioned in the addendum sheet.

The final wording in national language as well as the printing is under responsibility of the Regional Service Organizations.

③

### FAST LENS CLEANING (dry brush)

Use lens cleaning CD  
 SBC AC300.....9082 100 00043

Insert the lens cleaning CD, press PLAY and follow the voice guide's instructions on the CD.

④

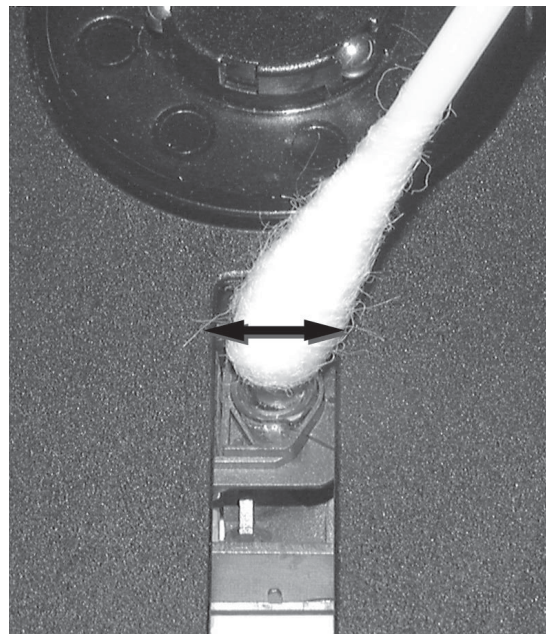
### LIQUID LENS CLEANING

**Before touching the lens it is advised to clean the surface of the lens by blowing clean air over it. This to avoid that little particles make scratches on the lens.**

Because the material of the lens is synthetic and coated with a special anti-reflectivity layer, cleaning must be done with a non-aggressive cleaning fluid. It is advised to use "Cleaning Solvent B4-No2", available with codenumber 4822 389 10026.

The actuator is a very precise mechanical component and may not be damaged in order to guarantee its full function. Clean the lens gently (don't press too hard) with a soft and clean cotton bud moistened with the special lens cleaner.

The direction of cleaning must be in the way as indicated in the picture below.

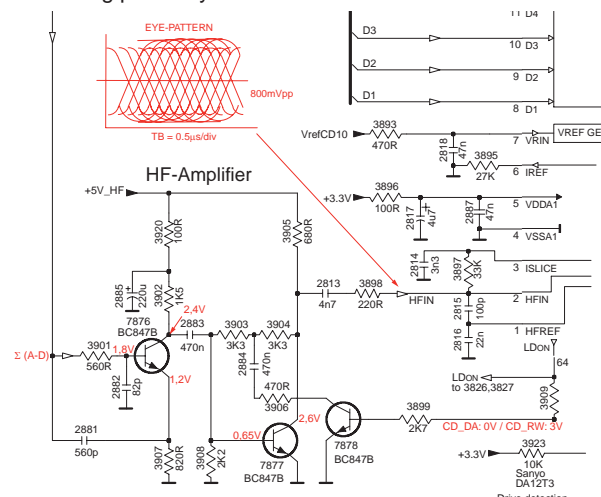


## CD PLAYABILITY CHECK

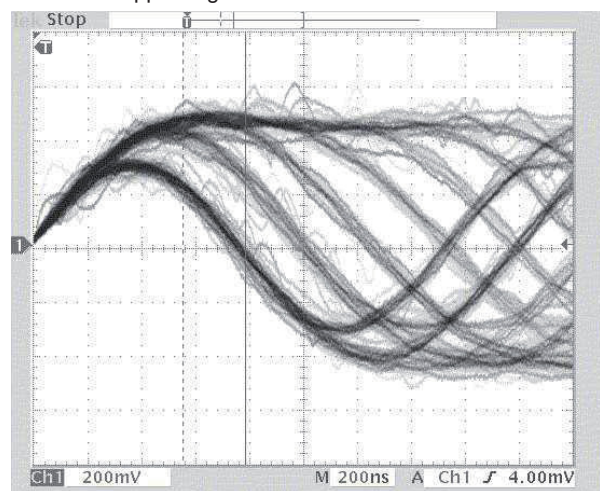
5

### EYE-PATTERN SIGNAL – JITTER MEASUREMENT

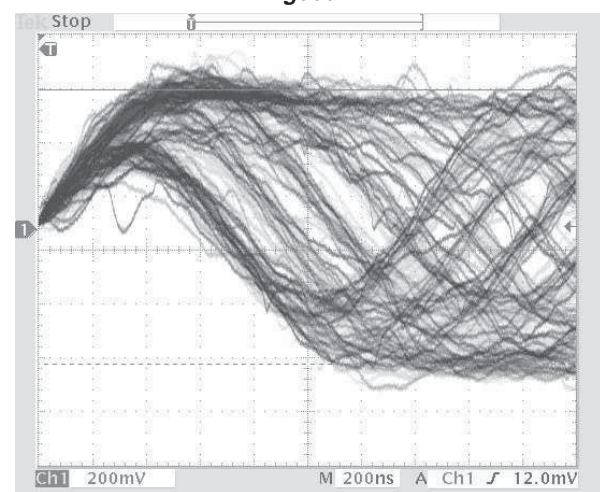
Measure the signal on the input of the Signal processor using an **analog** oscilloscope. Please find the exact measuring point in your Service Manual.



See below examples of the signal. Amplitude should read at least 700mVpp using SBC444A.



**good**



***bad***

If the oscilloscope shows a signal like the 'bad' one, and/or the amplitude decreases within 1 minute - the CD drive has to be replaced.

(e)

### CD DRIVE – LASER CURRENT MEASUREMENT

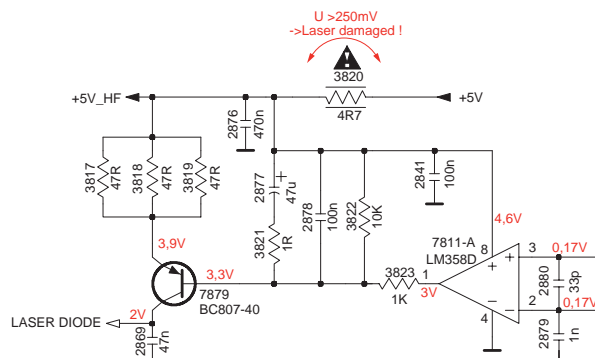
The laser current can be measured as a voltage drop on a resistor. The resistor is marked in every Service Manual. The value depends on the type of CD drive.

	typical value	most probably defect
VAMxxxx	: 150-230mV	≥350mV
MCDxx	: 170-230mV	≥300mV
DA1x	: 210-250mV	≥350mV
DA2x	: 175-200mV	≥250mV

Use SBC444A (CD-DA) for measurement.

Use SBC444A (CD-DA) for measurement.

## Laser power control



5

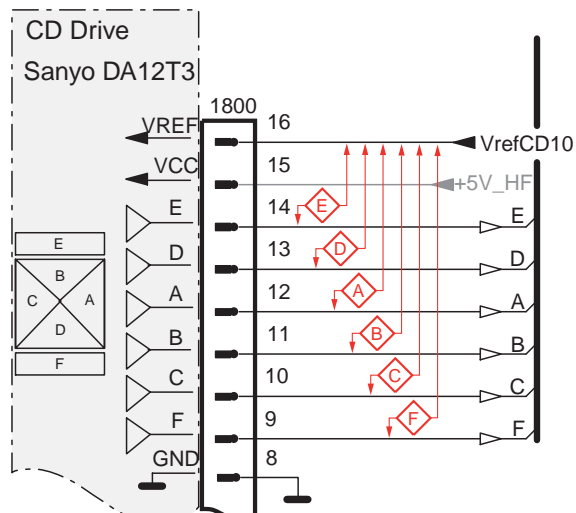
### CD DRIVE – OFFSET MEASUREMENT

The photodiodes of the CD-drive may have an offset. These offsets have to be compensated by the signal processor. High offsets can lead to poor playability of some CDs (skipping tracks).

To measure the offset values, start the **Service Test Program** - section "Focus Test" without a CD.

The offsets can be measured with a DC Millivoltmeter directly on the connector (see drawing below). Pin numbering varies from drive to drive.

**The values from diode A-D should read  $0 \pm 10\text{mV}$ . Diodes E and F are less critical.**



If one of the offsets is higher than  $\pm 10\text{mV}$  the CD drive has to be replaced. Otherwise replace the Signal Processor.

## General

AC Power .....230V  $\pm$ 10%  
 Dimensions (w x h x d) .....185 x 210 x 248mm  
 Weight (with/without speakers).....  
 .....approx. 5.5 kg / 3.5 kg

## Power consumption

Active.....< 45W  
 Standby.....< 20W  
 Eco Power Standby .....< 0.9W

## Amplifier

Output power ..... 2 x 40 W (RMS)  
 Frequency response ..... 60-20,000Hz, - 3dB  
 Signal-to-noise ratio ..... $\geq$  72 dBA (IEC)  
 Input sensitivity  
 AUX IN..... 500mV  
 Impedance speakers .....12 Ohm  
 Impedance headphones .....16 Ohm-150 Ohm

## Wireless

Wireless standard .....  
 .....802.11g, backwards compatible to 802.11b  
 Wireless security .....  
 .....WEP (64 or 128bit), WPA-PSK  
 Frequency range 2412-2462 MHz (CH1-CH11)

## Wired (LAN / Ethernet)

Wired standard .....802.3 / 802.3u  
 Speed .....10 / 100 MBit/s  
 Mode.....half / full duplex  
 Crossover detection (Auto MDIX) .....Yes

## USB player

USB .....12Mb/s, V1.1  
 .....support MP3, WMA and AAC files  
 USB class.....MSC, MTP  
 Number of albums/folders .....maximum 99  
 Number of tracks/titles .....maximum 999

## Speakers

2-way bass reflex system  
 Dimensions (w x h x d) .....160 x 208 x 263mm

## Tuner

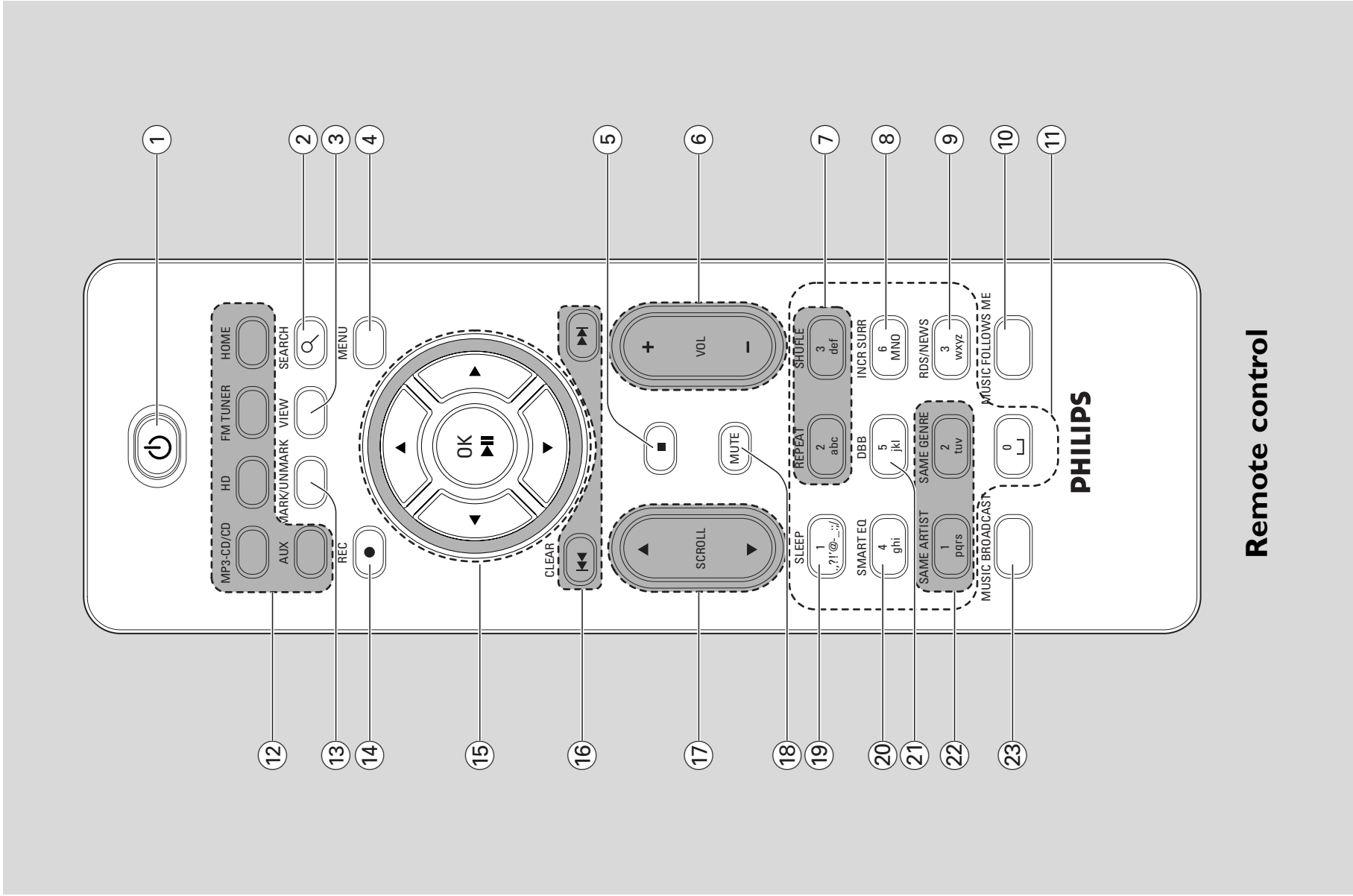
FM wave range .....87.5-108 MHz  
 Number of presets.....60  
 FM antenna/cable.....  
 COAX / Dipole-antenna (75W IEC-connector)

## HDD/CD player

Frequency range .....60-20,000 Hz, -3 dB  
 Signal-to-noise ratio .....72 dBA (IEC)  
 MPEG 1 Layer 3 (MP3-CD) .....MPEG AUDIO  
 MP3-CD bit rate .....  
 .....32-320 kbps, VBR  
 WMA bit rate .....up to 160 kbps  
 Sampling frequencies .....32, 44.1, 48 kHz  
 HDD storage capacity .....80GB\*  
 Recording quality .....  
 .....128, or 160, or 192, or 256, or 320 kbps  
 Recording speed.....1x, 4x  
 CDDb (CD recognition database).....  
 .....internal Gracenote® / online access enabled

Actual free space is 75GB or less due to the buffer partition for MP3  
 Compression , firmware ,music CD database and demo tracks storing.





2.2 Remote control

- ① **⏻**
  - press briefly to switch on the set or put it on standby mode;
  - press and hold to switch the set to power-saving mode
- ② **SEARCH**
  - enters the search mode and searches by keywords
- ③ **VIEW**
  - toggles between playback screen and previous option list
- ④ **MENU**
  - enters or exits setup menu
- ⑤ **■**
  - stops playback or recording
- ⑥ **VOL + / -**
  - adjusts the volume level
- ⑦ **REPEAT**
  - selects continuous playback
- SHUFFLE**
  - selects random playback
- ⑧ **INCR. SURR.**
  - selects surround sound effect
- ⑨ **RDS/NEWS**
  - Radio: selects RDS information
  - HD/CD/UPnP/Portable/AUX: toggles between NEWS function on or off
- ⑩ **MUSIC FOLLOWS ME**
  - HD: moves music playback between Center and Station
- ⑪ **Alphanumeric keys**
  - for text entry
- ⑫ **MP3-CD/CD**
  - selects CD source
  - In standby mode: switches on the set and selects the CD source.
- HD**
  - selects HD (hard disk) source
  - In standby mode: switches on the set and selects the HD source
- FM TUNER**
  - selects FM RADIO source
  - In standby mode: switches on the set and selects the FM RADIO source

- HOME**
  - select from: HD source, CD source, Radio source, UPnP source, Portable source or AUX (from a separately connected device)
  - In standby mode: switches on the set and select from the following music source: HD, CD, Radio, UPnP, Portable or audio input from a separately connected device
- AUX**
  - selects AUX source
  - In standby mode: switches on the set and selects the AUX source
- ⑬ **MARK/JUNMARK**
  - Selects or deselects tracks to be recorded
- ⑭ **REC ●**
  - CD/Radio/AUX: starts to record onto the hard disk
- ⑮ **◀ / ▶ / ▲ / ▼**
  - navigation controls (left, right, up, down) for scrolling through the option lists
- HD/CD/USB/UPnP:** returns to previous option lists
- Text input:** moves the cursor backward
- ▲ / ▼**
  - HD/CD/USB/UPnP: skips/searches tracks/passage backward/forward (in playback screen); fast scrolling in option lists
- FM Radio:** tunes to radio stations
- ▶**
  - confirms selection
- FM Radio:** enters the list of preset stations
- Text entry:** confirms input and moves the cursor forward
- OK/▶||**
  - Confirm selection
  - Starts playing
- ⑯ **◀◀ (CLEAR) / ▶▶**
  - HD/CD/USB/UPnP: skips/searches tracks/passage backward/forward (in playback screen)
- FM Radio:** go to previous / next preset radio station (in tuner playback screen)
- ◀◀ (CLEAR)**
  - Text entry: deletes the input before cursor
- ⑰ **SCROLL ▲ / ▼**
  - scrolls the display screen upward or downward



# Controls

- 18 **MUTE**
  - temporarily switches off the sound
- 19 **SLEEP**
  - adjusts, displays or switches off the sleep timer
- 20 **SMART EQ**
  - HD: selects the sound settings that match the current Genre
- 21 **DBB (Dynamic Bass Boost)**
  - toggles the bass enhancement on (DBB1, DBB2, DBB3) or off
- 22 **SAME GENRE**
  - HD: plays all the tracks of current Genre
- SAME ARTIST**
  - HD: plays all the tracks of current Artist
  - HD: enable Wireless Range Extender (refer to Extender's manual for details)
- 23 **MUSIC BROADCAST**
  - HD: broadcasts music from Center to Station

For more information onoperation instruction please visit Philips  
Audio internet site :  
<http://www.audio.philips.com>

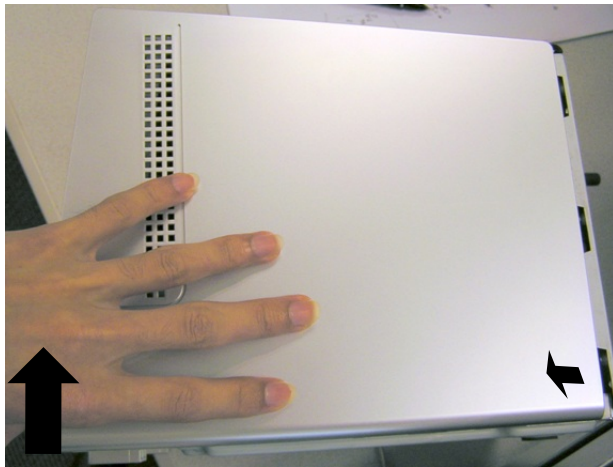
## DISASSEMBLY INSTRUCTION

### 1. Remove Left & Right Cabinet

- a. remove screws M3x12 - 4 pcs



- b. pull the left or right cabinet and then lift it.



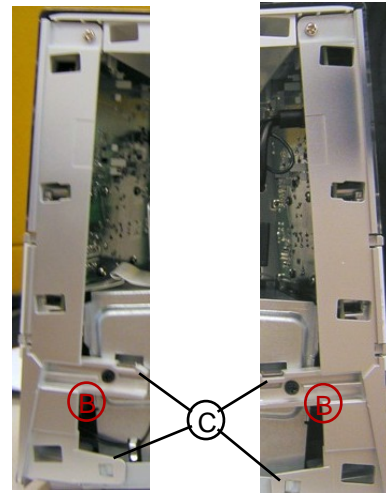
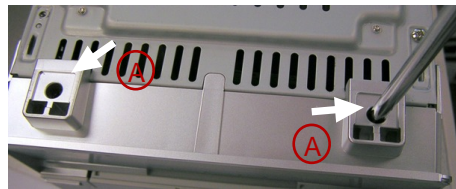
### 2. Remove Top Cabinet

- a. remove screws M3x10 - 2 pcs (A)  
b. remove screws M3x10 - 2 pcs (B)  
c. lift the Top Cabinet



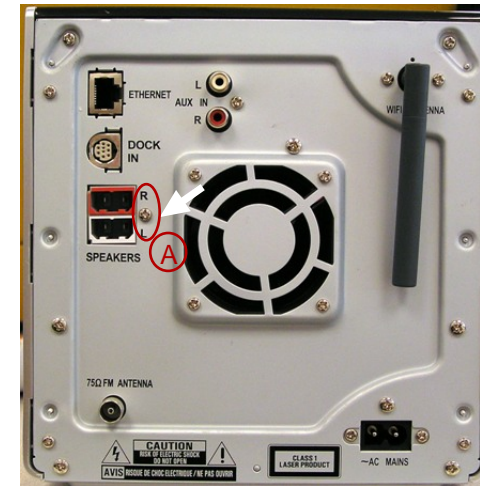
### 3. Separate Front and Back Cabinet.

- a. remove screws T3x10 - 2 pcs. (A)  
b. remove screws T3x10 - 2 pcs. (B)  
c. release the catches. (C)  
d. pull out the front cabinet.



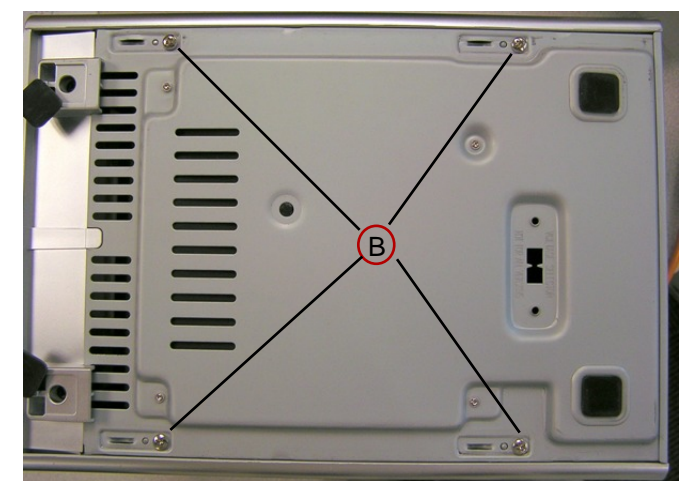
### 4. Remove Amplifier board

- a. remove screws M3x10 - 2 pcs (A)  
b. remove screws M3x10 - 2 pcs (B)

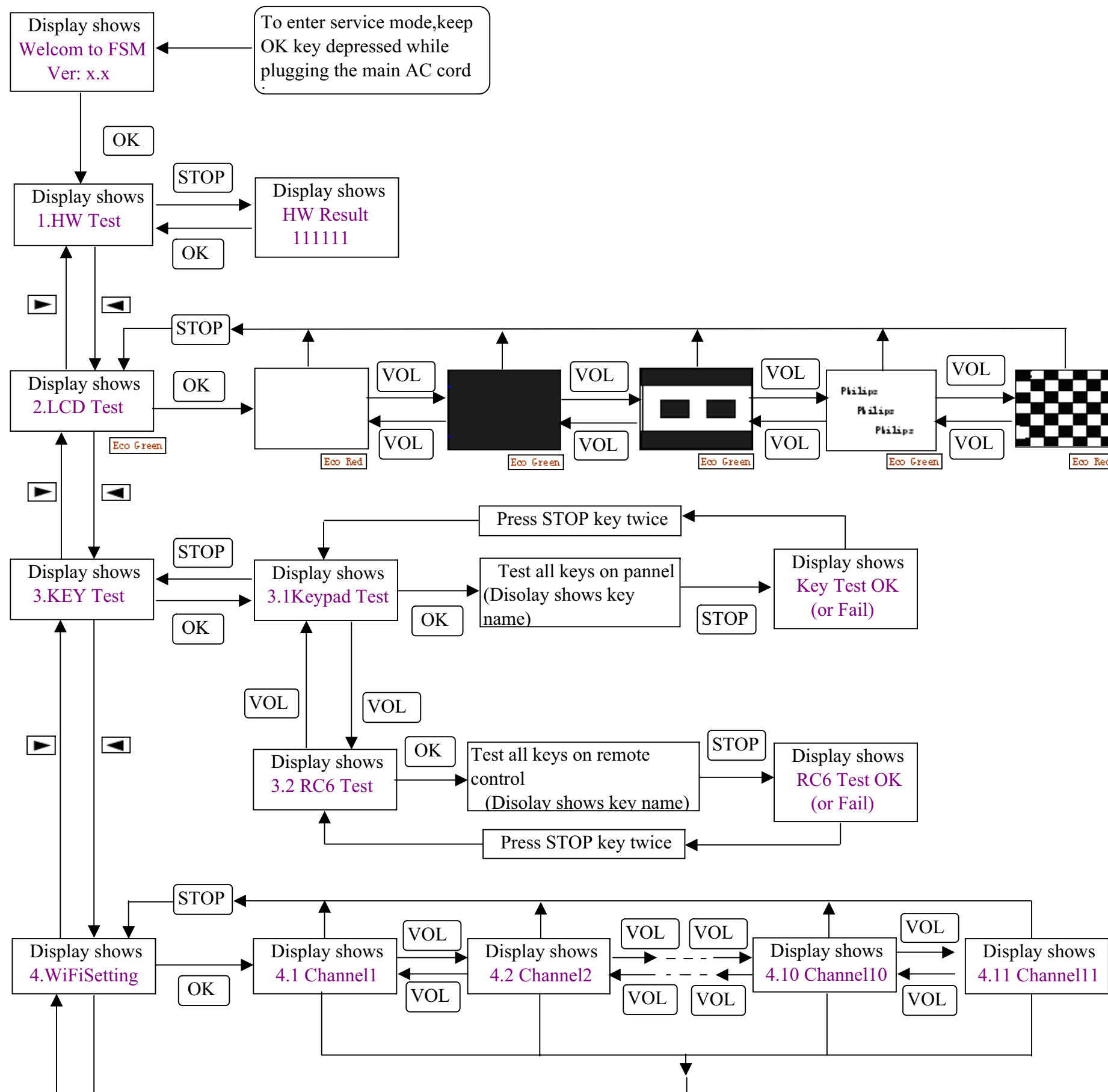


### 3. Separate rear and bottom Cabinet.

- a. remove screws T3x6 - 6 pcs. (A)  
b. remove screws T3x6 - 4 pcs. (B)

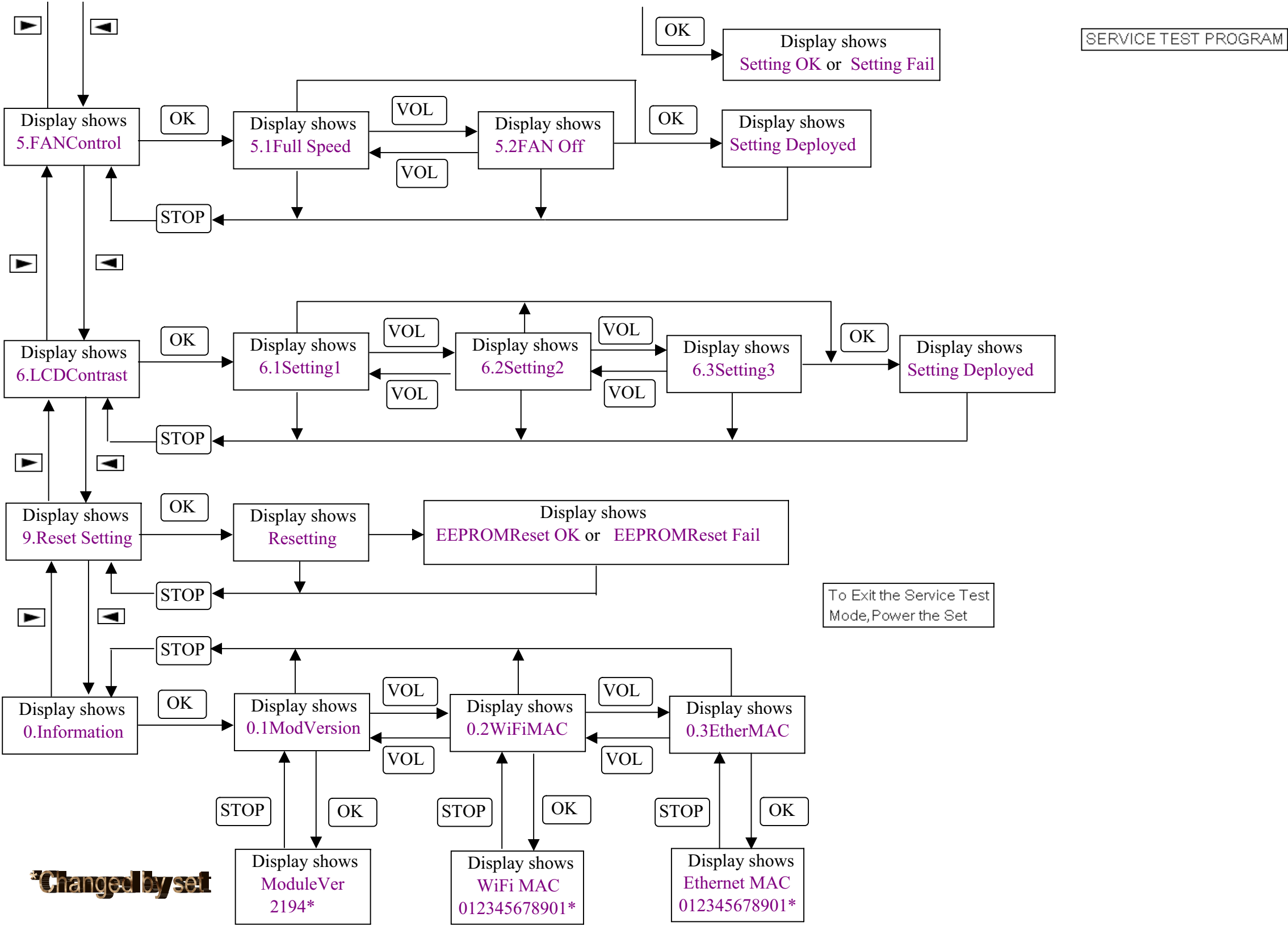


## SERVICE TEST PROGRAM





SERVICE TEST PROGRAM



## SOFTWARE UPGRADING PROCEDURE

### Software Version Verification Procedure

It is important to write down the system version information of your Center before you start the upgrade procedure. This information is also useful in case you need to call Philips Customer Care Center.

1. Press **MENU**.
2. Press **▲/▼** to select “**Information**”. Press **OK**.
3. Press **▲/▼** to select “**System**”. Press **OK**.
4. The software version number is shown on the display.
5. If the software version is not the latest one, you need to upgrade waC3500D.

There are 3 ways to update the software.

- A) Using CD-Rom
- B) Using WADM

### A. Using CD-Rom

#### 1. Software Upgrade Disc Preparation

Tools Required : You will need the following items :

- PC (Pentium III 300MHz processor or higher)
- CD-R/RW writer and writing application software
- Blank CD-R or CDRW disc
- Broadband / High speed internet connection

#### 2. How to download the software to your computer

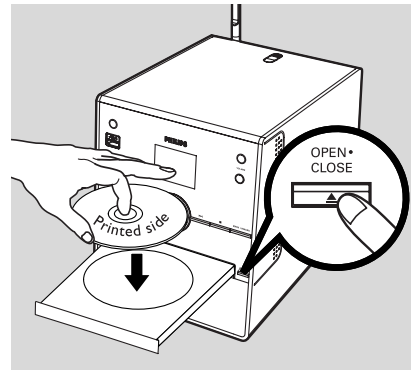
1. To download free firmware and software upgrades for your product, please login to [www.club.philips.com](http://www.club.philips.com)  
Download the firmware upgrade files and store them on your PC
2. Unzip the .zip file and extract files into your PC.

#### Note:

- Please do not rename the filename.
- If you do not have the software to open the .zip file, please visit below website to download the software.  
<http://www.winzip.com/>

#### 3. Steps to upgrade the waC3500D

1. Make sure the Audio Station has connected to the Audio Center.
2. Burn the file to blank CD-R or CDRW. Finalize the disc. (The application may do this automatically.)
3. Turn on the Audio Center and turn on the Audio Station, insert the CD to the slot loader, CD graphic printed side facing you.



4. The Audio Center will upgrade automatically.
  - The message “**Updating firmware, please wait.....**” and the “**process bar**” show on the display of the Audio Center.
  - The upgrade process of the Center will reboot twice

**Note: Do NOT power off the Audio Center or eject the disc at this stage.**

5. It takes around 5 mins to complete the firmware upgrade for the Audio Center.

6. When done, the Audio Center will go to the HD mode automatically.

#### 4. After the upgrade

Do confirm the software version by checking the system version.  
Please follow the procedure described in the section “**Software Version Verification Procedures**”.

### B. Upgrading firmware

The supplied PC Installer CD Wireless Audio Device Manager (WADM) helps you get the upgrades for WAC3500 Center.

- 1 Register your Philips Wireless Music Center with [www.club.philips.com](http://www.club.philips.com)
- 2 Download the firmware upgrade files and store them on your PC
- 3 Place Center on a flat and firm surface
- 4 Connect Center to power supply  
→ HD screen appears on Center
- 5 Connect Center to your PC via the supplied ethernet cable.
- 6 Install and launch WADM (see **Connect to your PC section B**)
- 7 Click **Device Configuration**, and then click the **Firmware upgrade** sub-menu
- 8 As prompted, click **Browse** and indicate the location where you kept the firmware upgrade files on PC



- 9 Click **Apply** to start upgrading firmware  
**On Philips Wireless Music Center:**  
→ The display shows “**Updating firmware, please wait...**”  
→ Center will reboot itself during the installation process  
→ When Center returns to HD screen, the installation is completed

#### IMPORTANT!

**On Philips Wireless Music Center**

- **Never interrupt the firmware upgrading before its completion.**
- **Before finishing the installation, never operate other functions.**

### \* Hints: Restoring previous firmware

After the Center's firmware is upgraded, you can restore it to its previous version as desired.

- 1 Select HD mode, and then select **Restore firmware**
  - a. Press **MENU** to enter the MENU screen
  - b. Press the navigation controls **▲** or **▼** and **▶** to enter **Settings, Firmware** and **Restore firmware** one by one.
- 2 Press **▶** to select **Yes**

#### Helpful hint:

– After restoration to previous firmware, the set will lost Wi-Fi links to associated stations or external network.

### \* Reset

**When to reset the Center:**

- Resetting the Center helps to re-establish the Wi-Fi connection between the Center and Station.
- Change the way the Center connects to an external Wi-Fi/wired network.

- 1 Check that the set is switched on (see **5.Basic functions**).
- 2 Press **MENU** to enter the menu screen
- 3 Press the navigation controls **▲** or **▼** and **▶** to enter **Settings** followed by **Restore settings**.



- 4 Press **▶** to select **Yes**  
→ The set is rebooted. Language selection screen appears.
- 5 Select your desired language: **English, Français, Español, Nederlands, Italiano** or **Deutsch**  
→ The set enters Installation Mode  
→ The search for Center starts. The Wi-Fi connection is being re-established

#### Helpful hint:

- After restoration to default settings, the network mode will go back to Ad-Hoc mode.
- Restoring to default settings does not delete any stored music tracks

Gracenote CD Information

The Gracenote music recognition service enables the set to look up CD track information (including album, artist, genre, track information) from its built-in database. It allows the recorded CD tracks to be properly categorized (for example, under Artists, Albums, Genres or All tracks) and also be merged with the existing tracks in the hard disk.

12.1 Gracenote music recognition database

A 800 MB CD database (contains 800,000 most popular CDs) is embedded in every WAC3500 Center for quick look-up on track information. An update file that contains newly released CDs is available quarterly on [www.club.philips.com](http://www.club.philips.com) for download.

12.1.1 To update Gracenote music recognition database

- 1 Use your PC to register your product on [www.club.philips.com](http://www.club.philips.com) and go to "Show Upgrades & Support" page to download Gracenote Music recognition database update. Note that the updates are posted quarterly and each update is independent of each other; i.e. a later update could be installed without an earlier update.
- 2 After storing the file on your PC, you can either burn a CD with the update file using your favorite CD burning software and drop the CD into the WAC3500 Center for automatic update, or you can use WADM's Gracenote update option if you have connected your PC to WAC3500 Center.

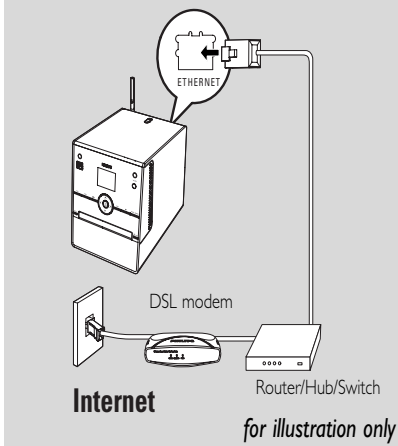
12.2 Gracenote Internet Query

If the CD track information of your new CD disc cannot be displayed on the WAC3500, the quickest and surest solution is to look it up from the internet by following steps below.

12.2.1 Connecting to the Internet

- 1 Check that you have connected the Center to an Access Point or Router with Internet access or connect the Center to an ADSL modem with Internet access directly

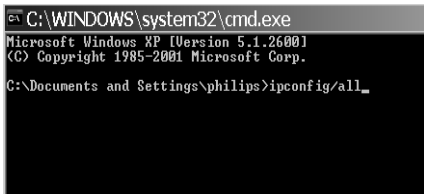
Connect to Internet for Gracenote Internet services



Helpful hint:

– Make sure that no dial-up, user name or password is required for the Internet access.

- 2 Set DNS and Gateway
  - If you are using a DHCP\* enabled Access Point, Router or ADSL modem, the DNS and Gateway can be got automatically, so you need only to set the Center to Automatic (DHCP) mode by following steps below:  
\*DHCP stands for Dynamic Host Configuration Protocol. It is a protocol for assigning dynamic IP addresses to devices on a network.
    - a. Press **MENU**
    - b. Press **▲** or **▼** and **▶** to select **Settings** > **Network** > **Wired**
    - c. Press **▶** to continue
    - d. Press **▲** or **▼** and **▶** to select **Automatic** (DHCP).
  - If there is no DHCP, set the DNS and Gateway manually by following steps below:  
**On your PC**, carry out the following steps:
    - a. Click **Start** > **Run**



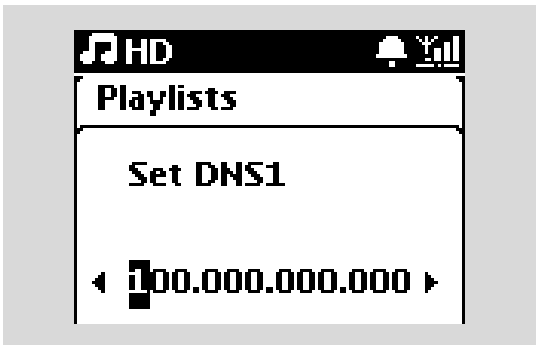
- b. Type **cmd** and click **OK**
- c. Type **ipconfig/all**

- d. Write down the DNS and Gateway of the current connection



On the Center

- a. Press **MENU** to enter the menu screen
- b. Press **▲** or **▼** and **▶** to enter **Settings** > **Network** > **Internet**
- c. Press **▶** to continue
- d. Set DNS



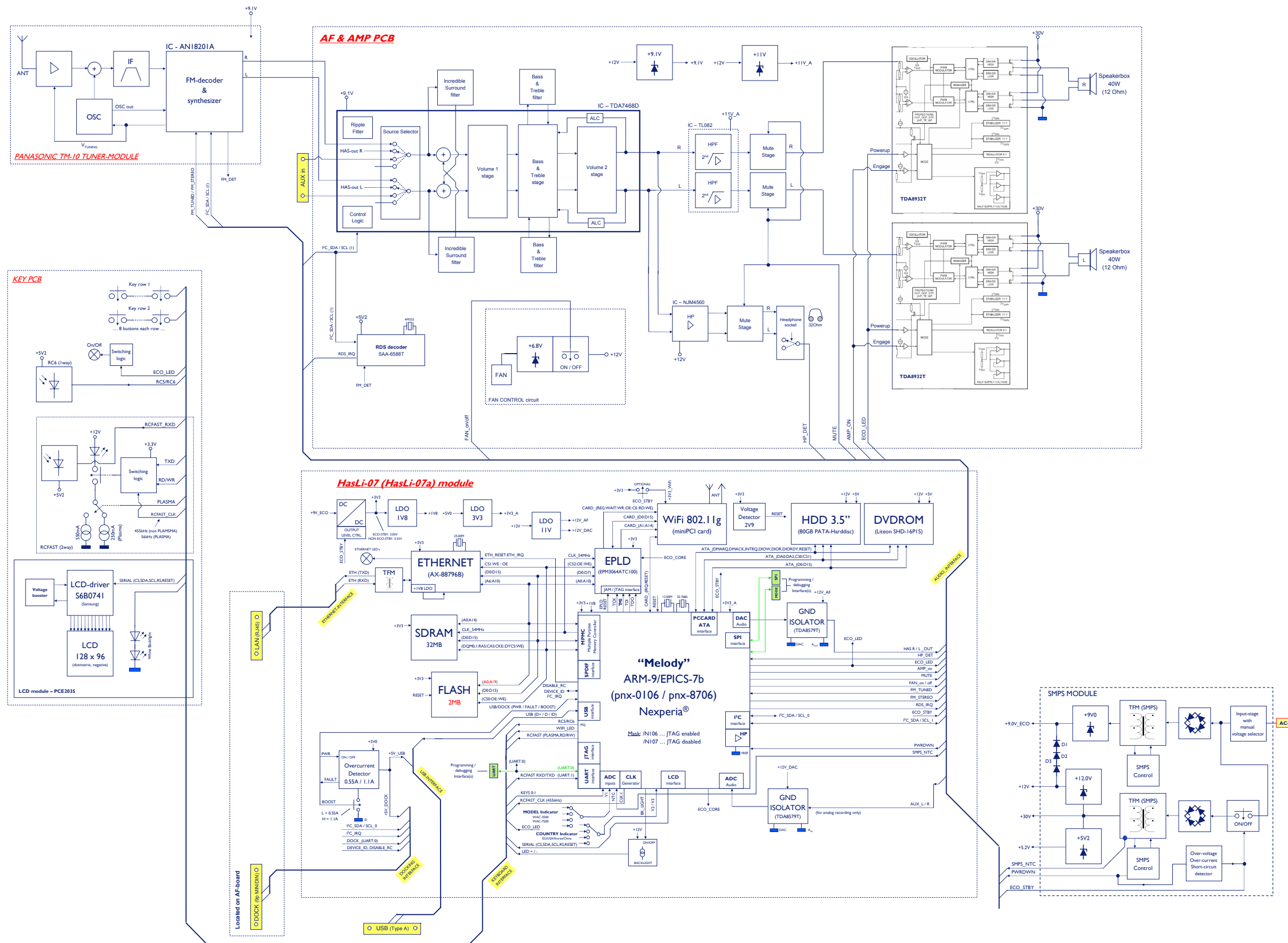
- 1) Enter the DNS server you wrote down
- 2) Press **OK▶II** to confirm
- 3) Press **OK▶II** to skip Set DNS2

Helpful hint:

– If necessary, follow Steps 1) to 2) above to set a secondary DNS server in Set DNS2

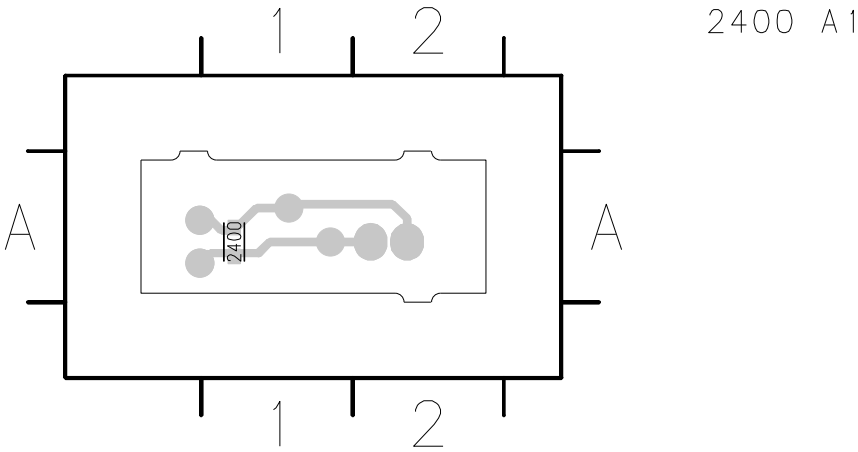
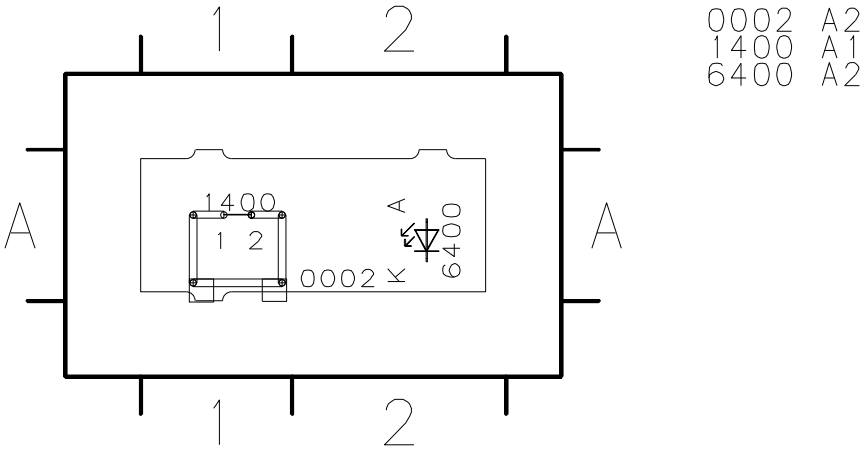
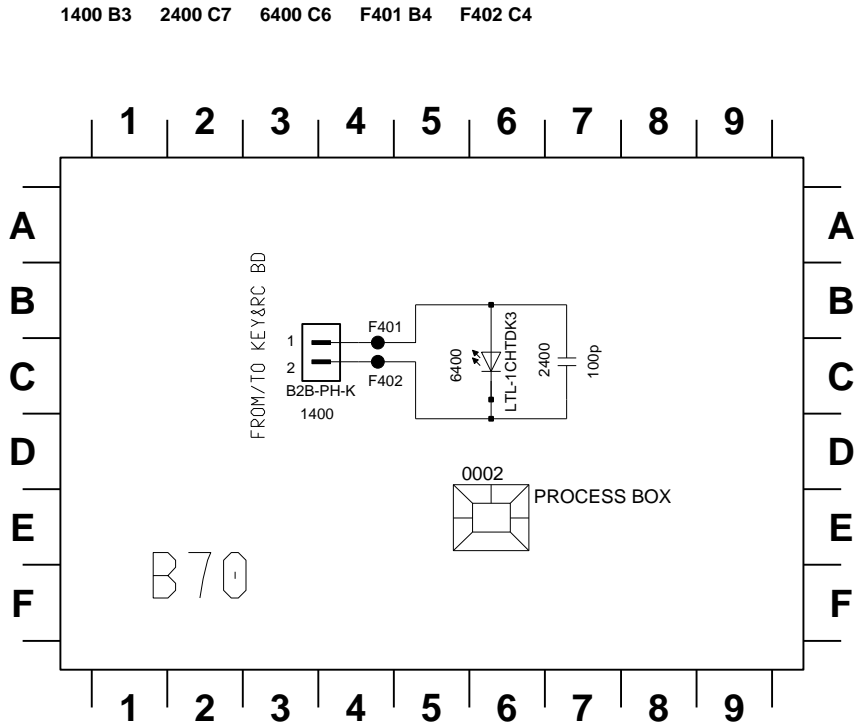
- e. Set Gateway
    - 1) Enter the Gateway you wrote down
    - 2) Press **OK▶II** to confirm
  - f. Set proxy  
If you are using a proxy server to visit websites, enable Proxy and proceed with the proxy setting as prompted, then press **OK▶II** to confirm  
Otherwise, press **OK▶II** to skip
- 3 Choose to apply the settings as prompted  
→ Settings will change. **Connection to station could be lost** appears.

## SET BLOCK DIAGRAM



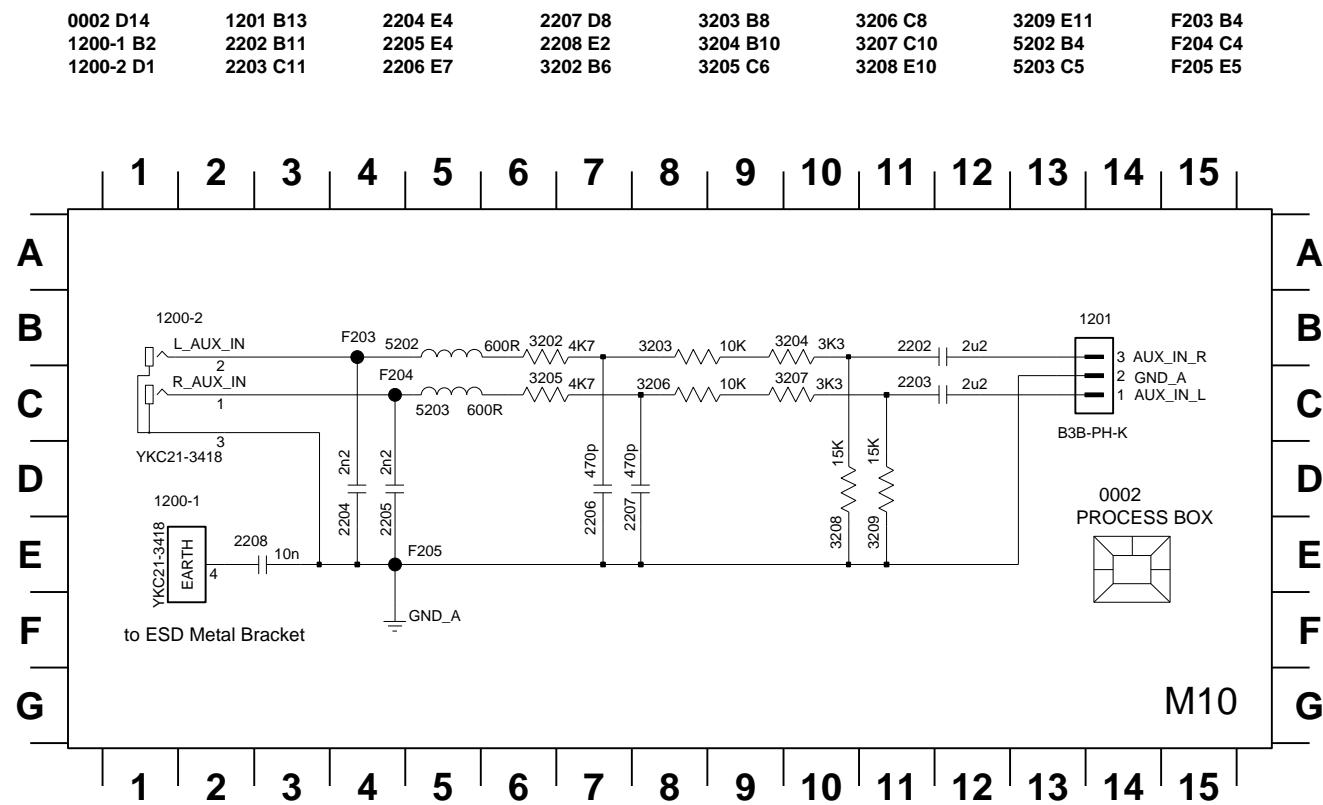


PB-Wifi-light

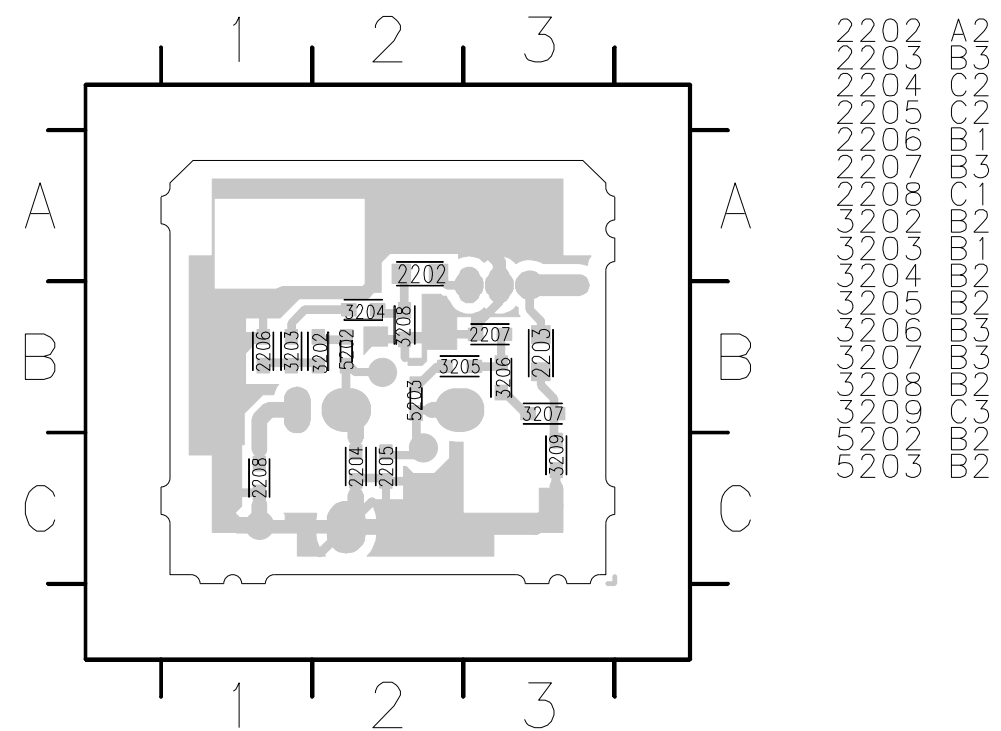
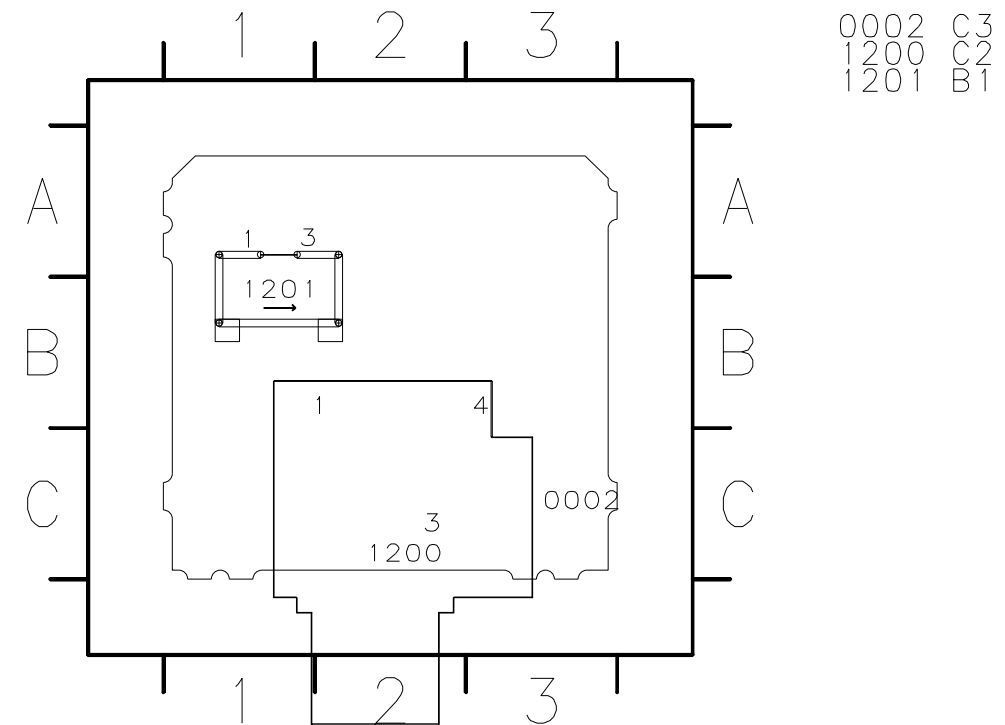


## PB AUDIO In/out

### Circuit Diagram

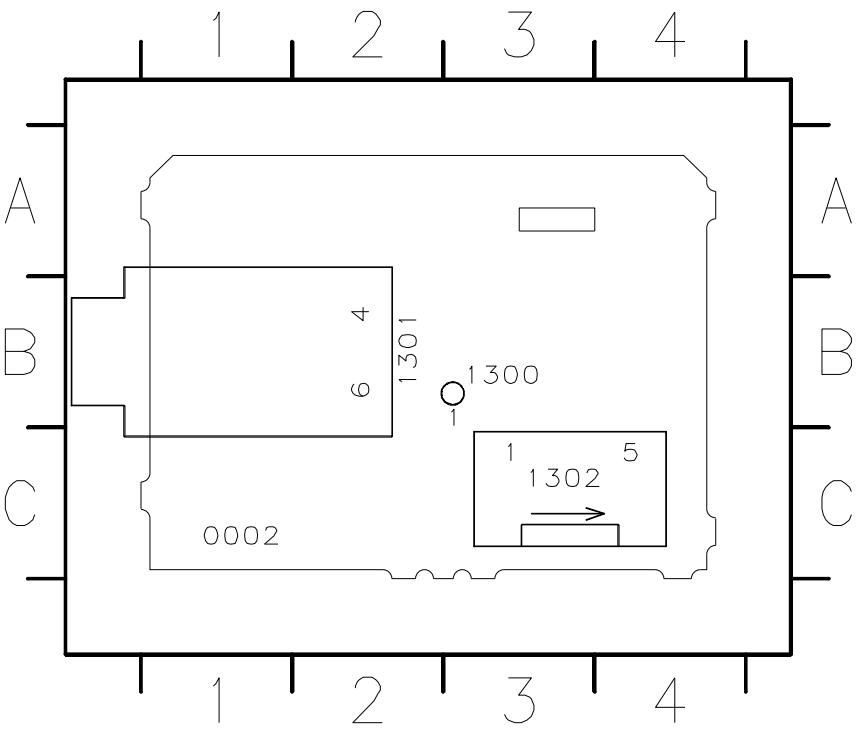
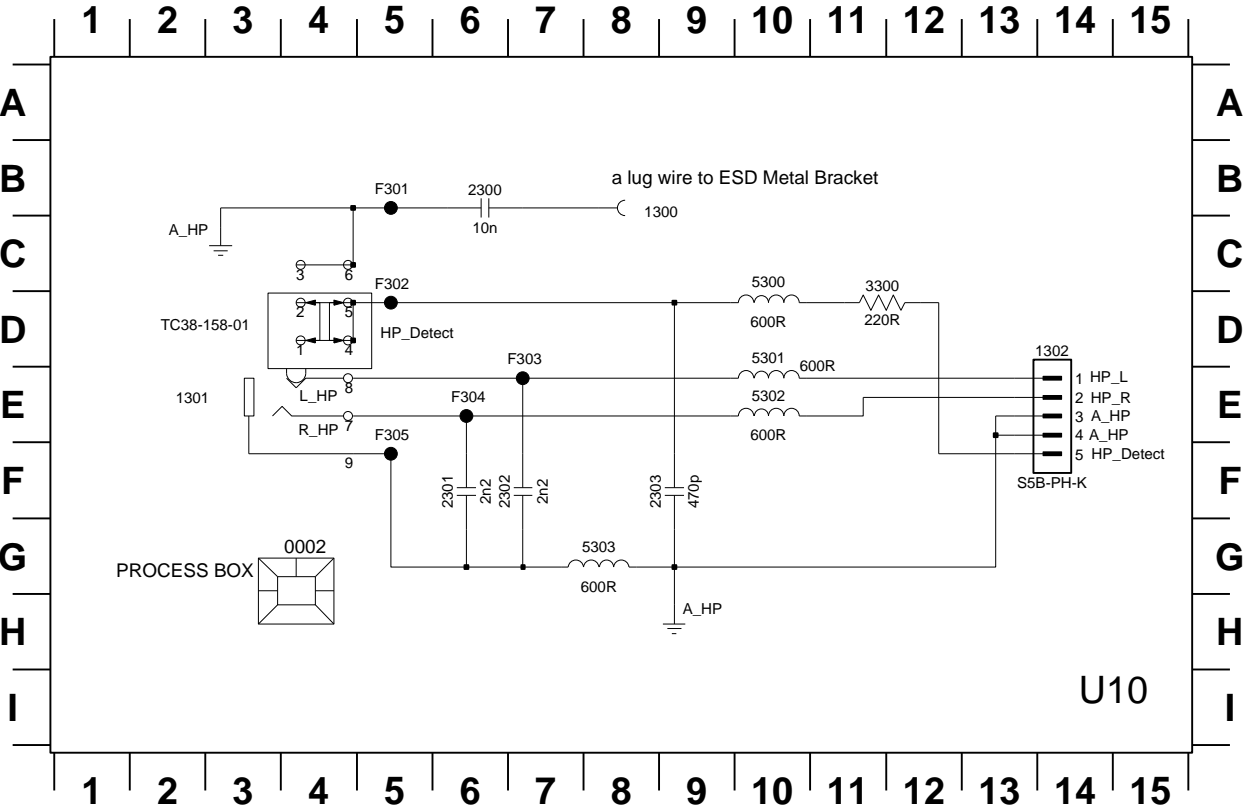


### Layout Diagram

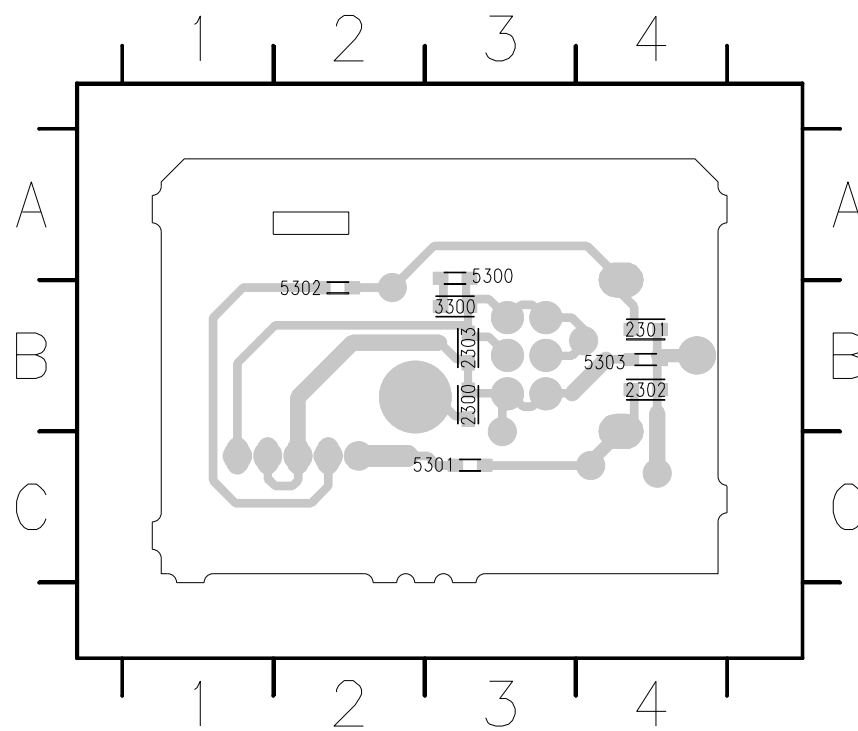


PB-Headphone

0002 G4	1301 E2	2300 B6	2302 F7	3300 C11	5301 D10	5303 G8	F302 C5	F304 E6
1300 B9	1302 D14	2301 F6	2303 F9	5300 C10	5302 E10	F301 B5	F303 D7	F305 E5



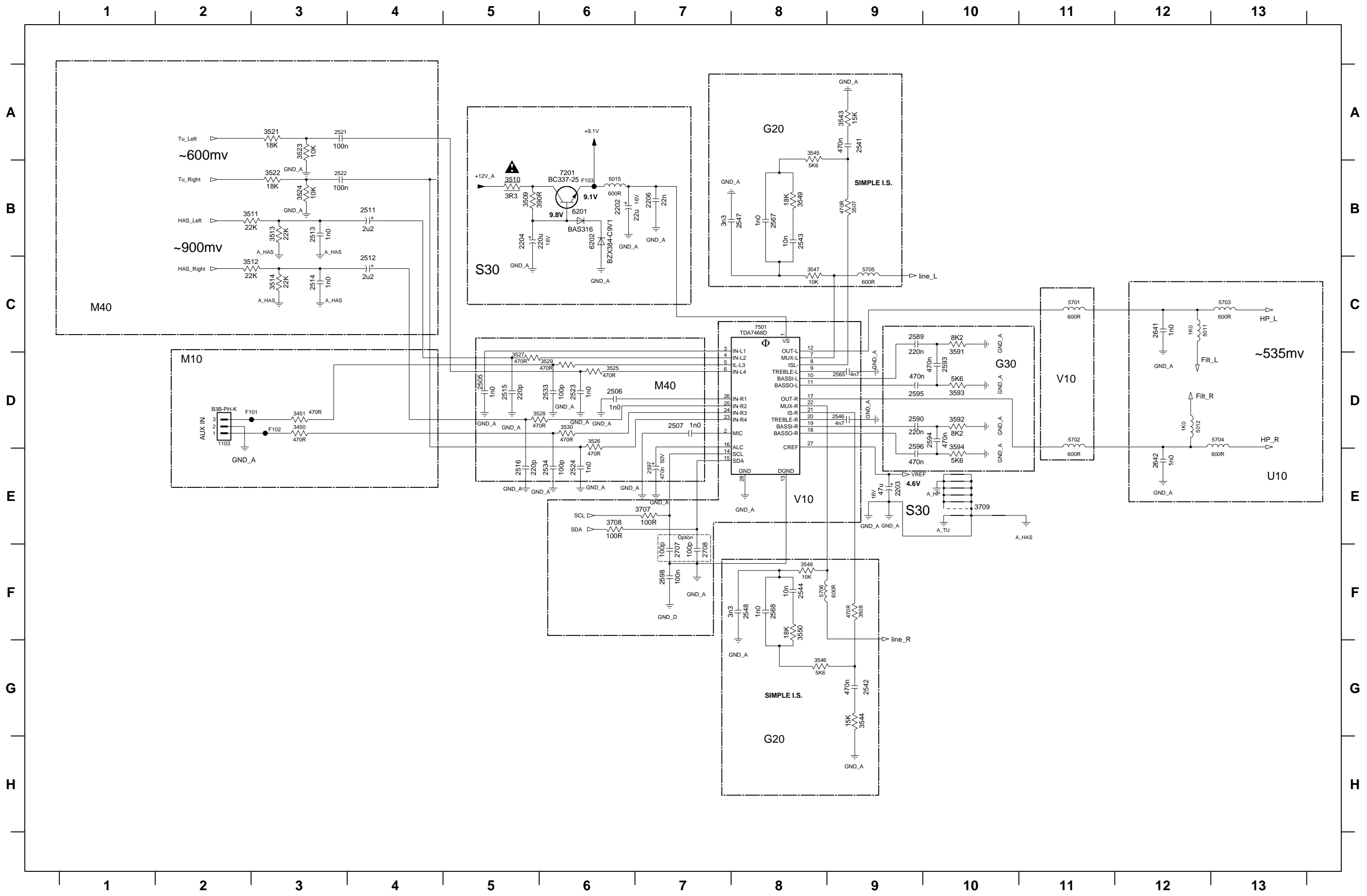
0002	C1
1300	B3
1301	B2
1302	C3



2300	B3
2301	B4
2302	B4
2303	B3
5300	B3
5301	A3
5302	C3
5303	B2
5300	B4

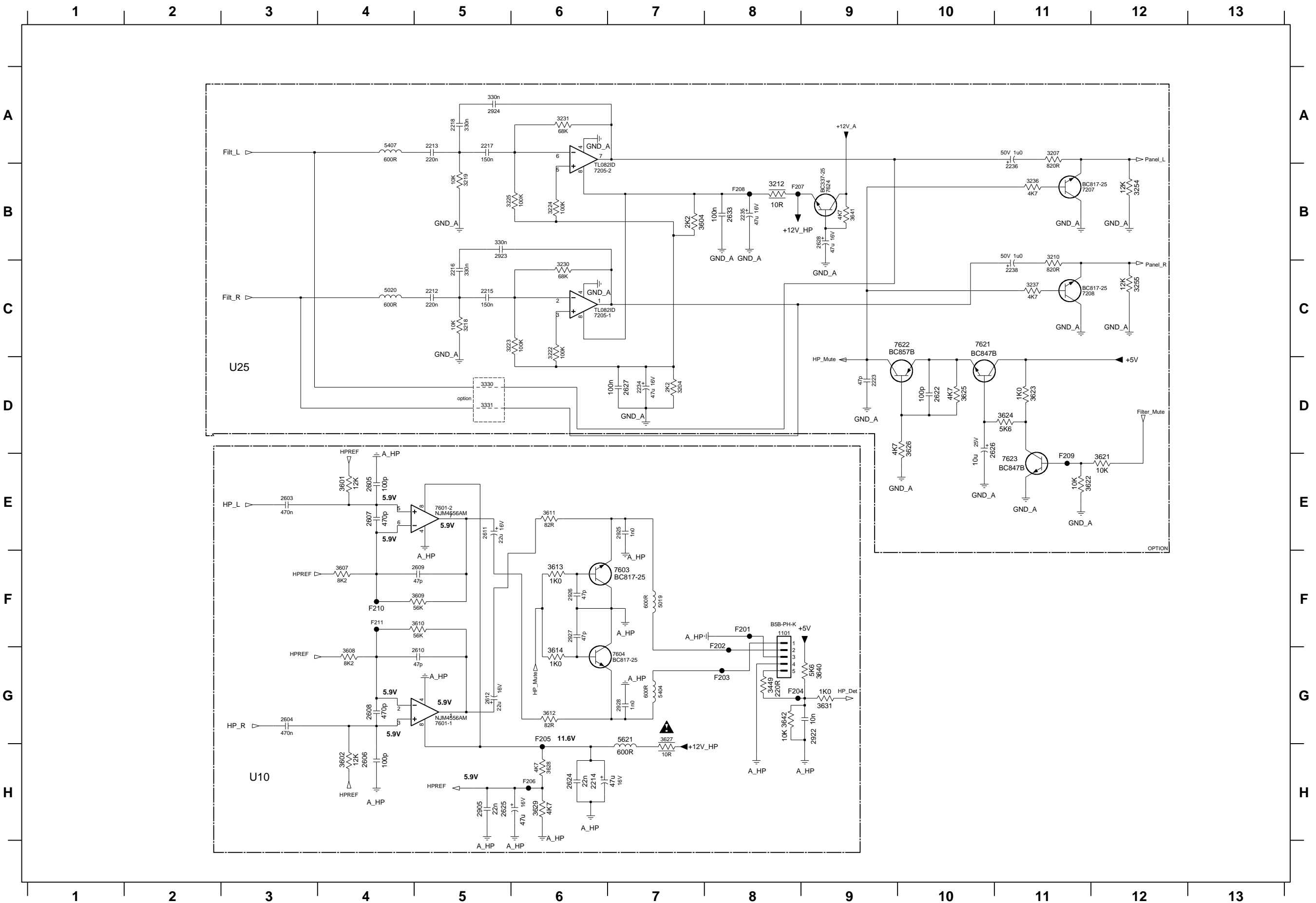


PB-AF&AMP - Circuit Diagram ( Part1 )



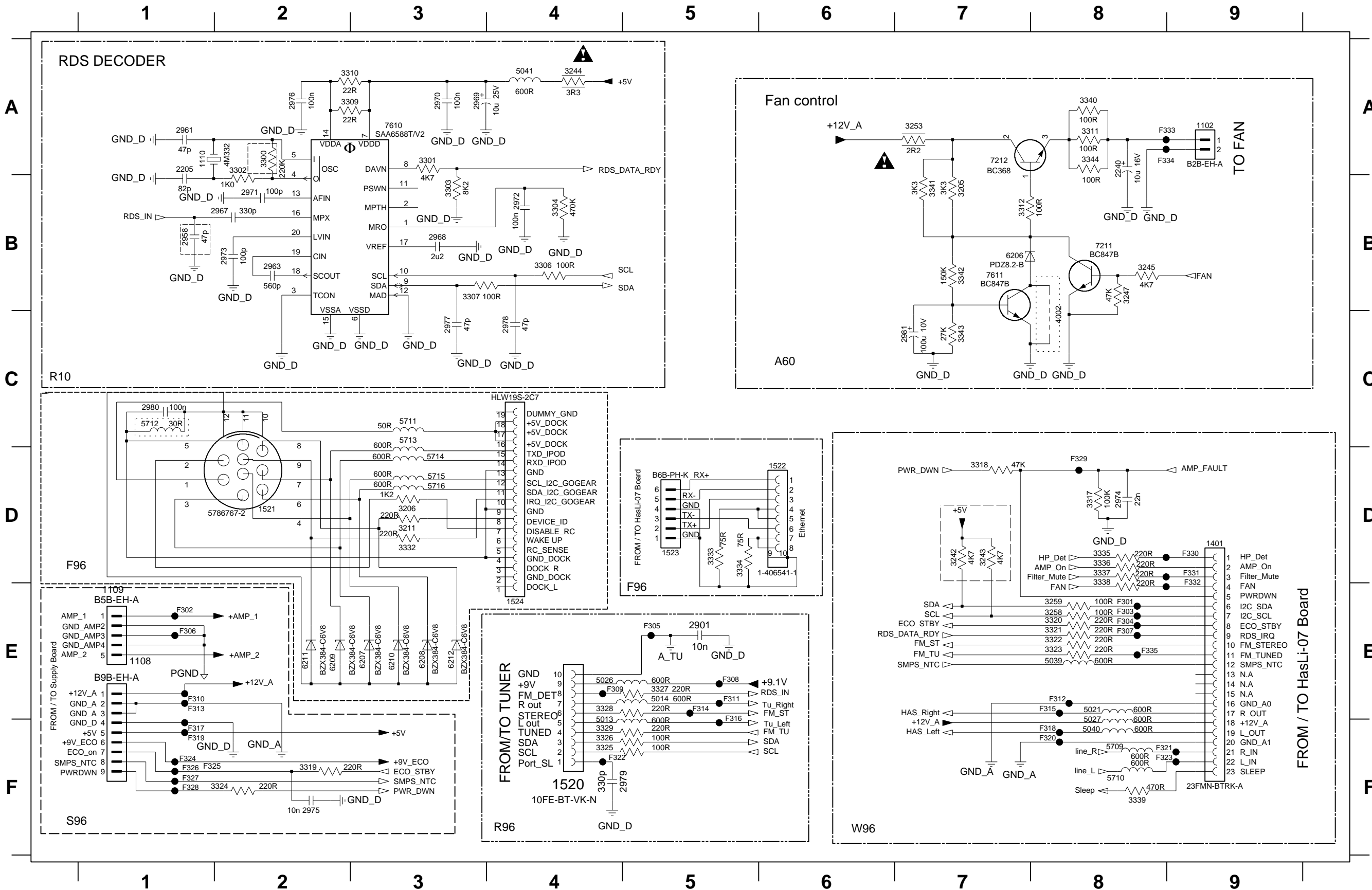
- 1103 D2
- 2202 B6
- 2203 E9
- 2204 B5
- 2206 B7
- 2505 D5
- 2506 D6
- 2507 D7
- 2511 B4
- 2512 C4
- 2513 B3
- 2514 C3
- 2515 D5
- 2516 E5
- 2521 A3
- 2522 B3
- 2523 D6
- 2524 E6
- 2533 D6
- 2534 E6
- 2541 A9
- 2542 G9
- 2543 B8
- 2544 F8
- 2546 D9
- 2547 B8
- 2548 F8
- 2555 D9
- 2556 B8
- 2568 F8
- 2589 C9
- 2590 D9
- 2593 D10
- 2594 D10
- 2595 D9
- 2596 E9
- 2597 E7
- 2598 F7
- 2641 C12
- 2642 E12
- 2707 F7
- 3450 D3
- 3451 D3
- 3507 B9
- 3508 F9
- 3509 B5
- 3510 B5
- 3511 B2
- 3512 C2
- 3513 B3
- 3514 C3
- 3521 A3
- 3522 B3
- 3523 A3
- 3524 B3
- 3525 D6
- 3526 D6
- 3527 D5
- 3528 D6
- 3529 D6
- 3530 D6
- 3543 A9
- 3544 G9
- 3545 A8
- 3546 G8
- 3547 C8
- 3548 F8
- 3549 B8
- 3550 F8
- 3591 C10
- 3592 D10
- 3593 D10
- 3594 E10
- 3707 E7
- 3708 E6
- 3709 E10
- 5011 C12
- 5012 D12
- 5015 B6
- 5701 C11
- 5702 D11
- 5703 C13
- 5704 D13
- 5705 C9
- 5706 F8
- 6201 B6
- 6202 B6
- 7201 B6
- 7501 C8
- F101 D3
- F102 D3
- F103 B6

PB-AF&AMP - Circuit Diagram ( Part2 )



- 1101 F8
- 2212 C5
- 2213 A5
- 2214 H6
- 2215 C5
- 2216 C5
- 2217 A5
- 2218 A5
- 2223 D9
- 2234 D7
- 2235 B8
- 2236 B11
- 2238 C11
- 2603 E3
- 2604 G3
- 2605 E4
- 2606 H4
- 2607 E4
- 2608 G4
- 2609 F5
- 2610 G5
- 2611 E5
- 2612 G5
- 2622 D10
- 2624 H6
- 2625 H5
- 2626 D10
- 2627 D7
- 2628 B9
- 2633 B8
- 2905 H5
- 2922 G9
- 2923 B5
- 2924 A5
- 2925 E7
- 2926 F6
- 2927 F6
- 2928 G7
- 3204 D7
- 3207 A11
- 3210 B11
- 3212 B8
- 3218 C5
- 3219 B5
- 3222 C6
- 3223 C5
- 3224 B6
- 3225 B5
- 3230 C6
- 3231 A6
- 3236 B11
- 3237 C11
- 3254 B12
- 3255 C12
- 3330 D5
- 3331 D5
- 3449 G8
- 3601 E4
- 3602 H4
- 3604 B7
- 3607 F4
- 3608 G4
- 3609 F5
- 3610 F5
- 3611 E6
- 3612 G6
- 3613 F6
- 3614 G6
- 3621 E12
- 3622 E11
- 3623 D11
- 3624 D11
- 3625 D10
- 3626 D10
- 3627 G7
- 3628 H6
- 3629 H6
- 3631 G9
- 3640 G9
- 3641 B9
- 3642 G8
- 5019 F7
- 5020 C4
- 5404 G7
- 5407 A4
- 5621 G7
- 7205-1 C6
- 7205-2 B6
- 7207 B11
- 7208 C11
- 7601-1 G5
- 7601-2 E5
- 7603 F7
- 7604 G7
- 7621 C10
- 7622 C10
- 7624 B9
- 7623 E11
- F201 F8
- F202 G8
- F203 G8
- F204 G8
- F205 G6
- F206 H6
- F207 B8
- F208 B8
- F209 E11
- F210 F4
- F211 F4

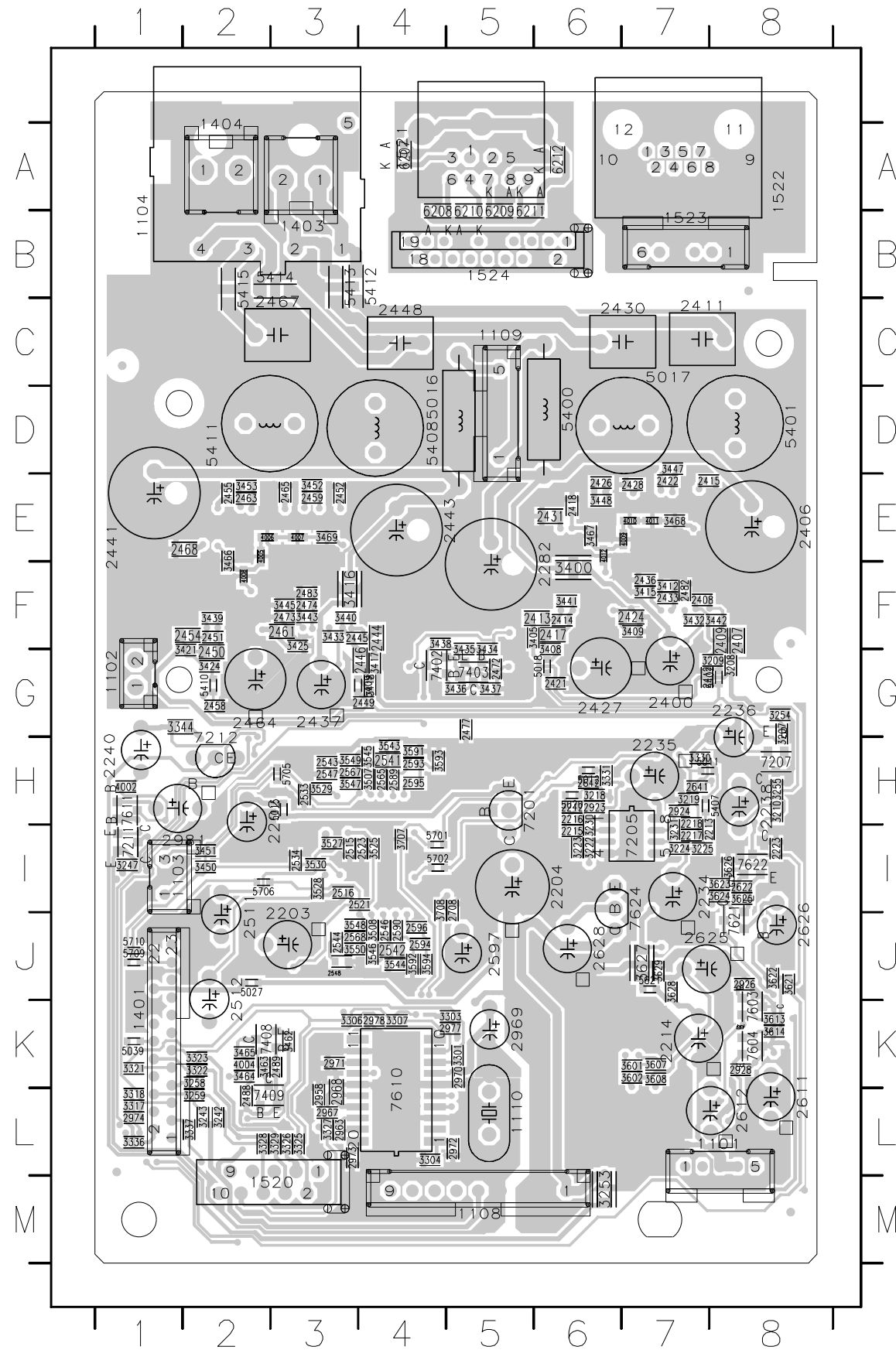
PB-AF&AMP - Circuit Diagram ( Part3 )

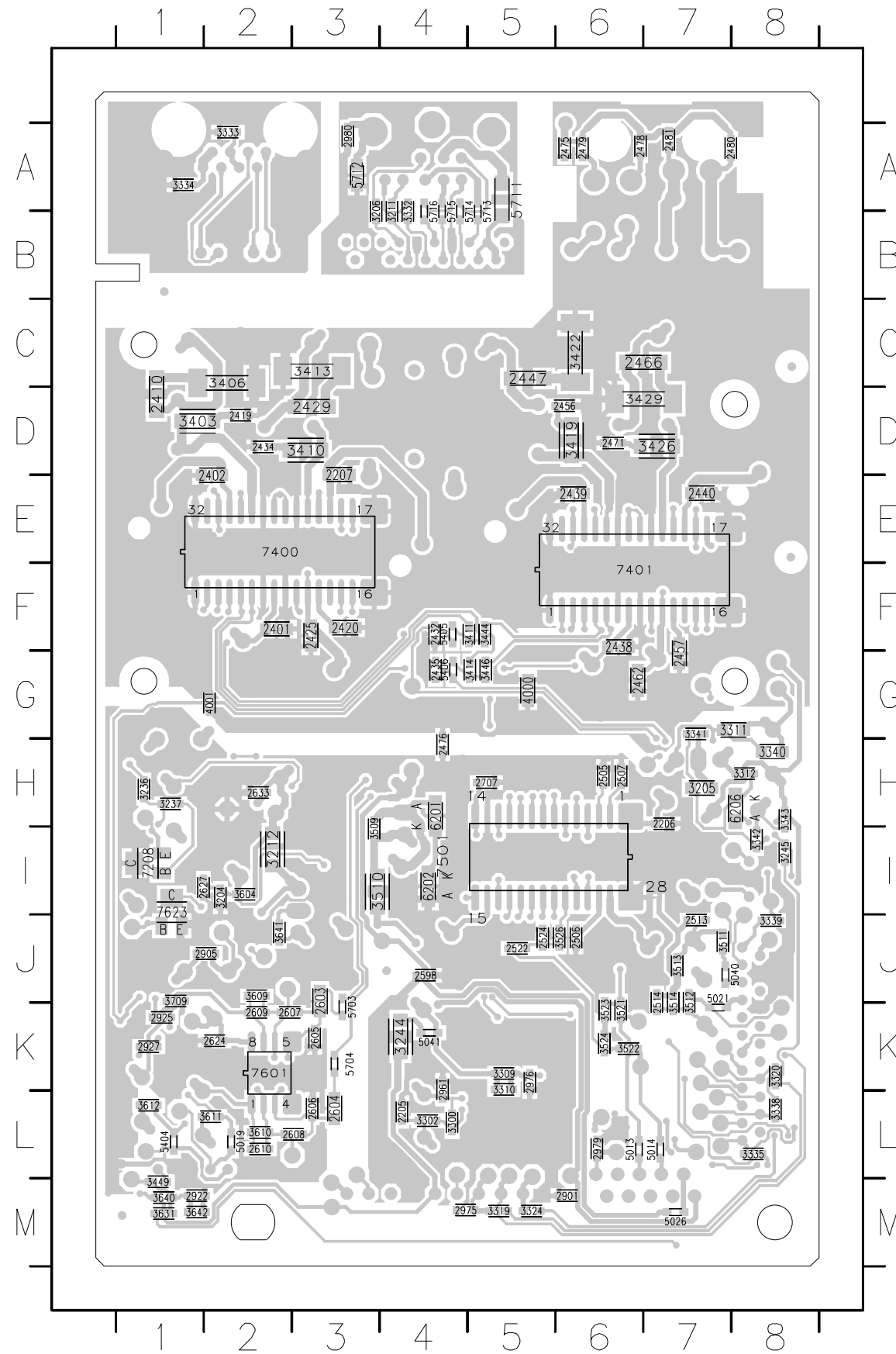


1102 A9	5013 F4
1108 E1	5014 E5
1109 E1	5021 E8
1110 A1	5026 E4
1401 D9	5027 F8
1520 F4	5039 E8
1521 D2	5040 F8
1522 D6	5041 A4
1523 D5	5709 F8
1524 E4	5710 F8
2205 A1	5711 C3
2240 A8	5712 C1
2901 E5	5713 C3
2958 B1	5714 D3
2961 A1	5715 D3
2963 B2	5716 D3
2967 B2	6206 B7
2968 B3	6207 E3
2969 A3	6208 E3
2970 A3	6209 E2
2971 B2	6210 E3
2972 B4	6211 E2
2973 B2	6212 E3
2974 D8	7211 B8
2975 F2	7212 A7
2976 A2	7610 A3
2977 C3	7611 B7
2978 C4	F301 E8
2979 F4	F302 E1
2980 C1	F303 E8
2981 C7	F304 E8
3205 B7	F305 E5
3206 D3	F306 E1
3211 D3	F307 E8
3242 D7	F308 E5
3243 D7	F309 E4
3244 A4	F310 E1
3245 B8	F311 E5
3247 B8	F312 E8
3253 A7	F313 E1
3258 E8	F314 E5
3259 E8	F315 E8
3300 A2	F316 F5
3301 A3	F317 F1
3302 A2	F318 F8
3303 B3	F319 F1
3304 B4	F320 F8
3306 B4	F321 F8
3307 B3	F322 F4
3309 A2	F323 F8
3310 A2	F324 F1
3311 A8	F326 F1
3312 B7	F327 F1
3317 D8	F328 F1
3318 D7	F329 D8
3319 F2	F330 D9
3320 E8	F331 D9
3321 E8	F332 E9
3322 E8	F333 A9
3323 E8	F334 A8
3324 F2	F335 E8
3325 F4	
3326 F4	
3327 E5	
3328 E4	
3329 F4	
3332 D3	
3333 D5	
3334 D5	
3335 D8	
3336 D8	
3337 D8	
3338 E8	
3339 F8	
3340 A8	
3341 B7	
3342 B7	
3343 A7	
3344 A8	
4002 C8	

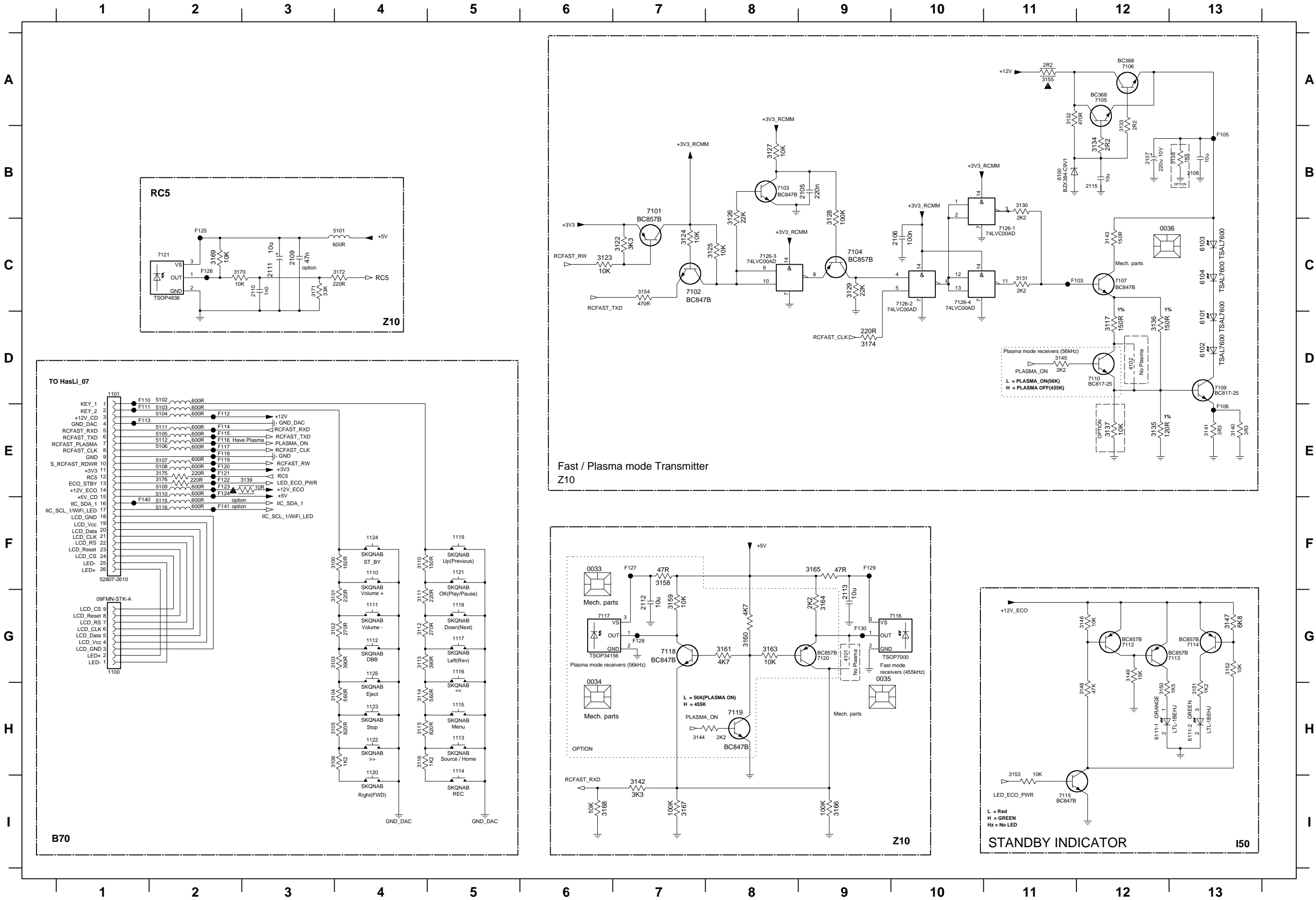
The image displays a complex PCB layout for a Class D Power Amplifier, organized into a grid from 1 to 11 horizontally and A to H vertically. The layout features two main amplifier channels, AMP\_1 and AMP\_2, each utilizing a TDA8932T Class D Power Amplifier IC. The AMP\_1 channel is located in the upper right, while the AMP\_2 channel is in the lower right. Both channels include input stages with BC847B and BC857B transistors, and output stages with various passive components like resistors and capacitors. The layout also includes a section for optional components (option) in the upper left. Key components include the TDA8932T Class D Power Amplifier ICs, BC847B and BC857B transistors, and various passive components (resistors, capacitors) for biasing and filtering. The layout also shows power and ground planes, and a section for optional components (option). The grid system is used to reference specific locations on the board, with columns numbered 1 to 11 and rows labeled A to H.

1400 C11	3426 G8
1403 D11	3429 G9
1404 E11	3432 B8
2207 A8	3433 F8
2282 A8	3434 E4
2400 A6	3435 E4
2401 A6	3436 E4
2402 A8	3437 E4
2406 A8	3438 E3
2407 A5	3439 F5
2408 B5	3440 F6
2409 B5	3441 B6
2410 B9	3442 B6
2411 B9	3443 G5
2412 B4	3444 G5
2413 B5	3445 H5
2414 B5	3446 G5
2415 B8	3447 B7
2417 B5	3448 C7
2418 B8	3452 F7
2419 B8	3453 F7
2420 B6	3462 B3
2421 B4	3463 C2
2422 B8	3464 C1
2424 C5	3465 C3
2425 B5	3466 E7
2426 B8	3467 A7
2427 C5	3468 A7
2428 C8	3469 E7
2429 C9	4000 G8
2430 C9	4001 F8
2431 C5	4004 D2
2432 C4	5016 D9
2433 C6	5017 C9
2434 C8	5018 B4
2435 D4	5000 A9
2436 D5	5001 B9
2437 E6	5402 B4
2438 E6	5405 C5
2439 E8	5406 D5
2440 E8	5408 F9
2441 E8	5409 F4
2443 E8	5410 F4
2444 E5	5411 F9
2445 F5	5412 B10
2446 F5	5413 C10
2447 F9	5414 F10
2448 F9	5415 F10
2449 F4	7400 A6
2450 F5	7401 E6
2451 F6	7402 E3
2452 F8	7403 E4
2454 F5	7408 C3
2455 F8	7409 C2
2456 F8	F401 C1
2457 F5	F402 C11
2458 F4	F403 C11
2459 F8	F404 C11
2461 F5	F405 B4
2462 F5	F406 C4
2463 F8	F407 D4
2464 F5	F408 F4
2465 F8	
2466 G9	
2467 G9	
2468 G5	
2471 G8	
2472 E4	
2473 H5	
2474 G5	
2475 D11	
2476 D7	
2477 E5	
2478 E11	
2479 E11	
2480 E11	
2481 E11	
2482 C6	
2483 G6	
2488 C1	
2489 C2	
3208 A5	
3209 B5	
3400 A7	
3403 B8	
3405 B5	
3406 B9	
3408 B5	
3409 B5	
3410 C8	
3411 C5	
3412 C5	
3413 C9	
3414 D5	
3415 D5	
3416 D7	
3417 E5	
3418 F5	
3419 F8	
3421 F5	
3422 F9	
3424 F5	
3425 F5	

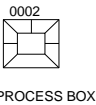


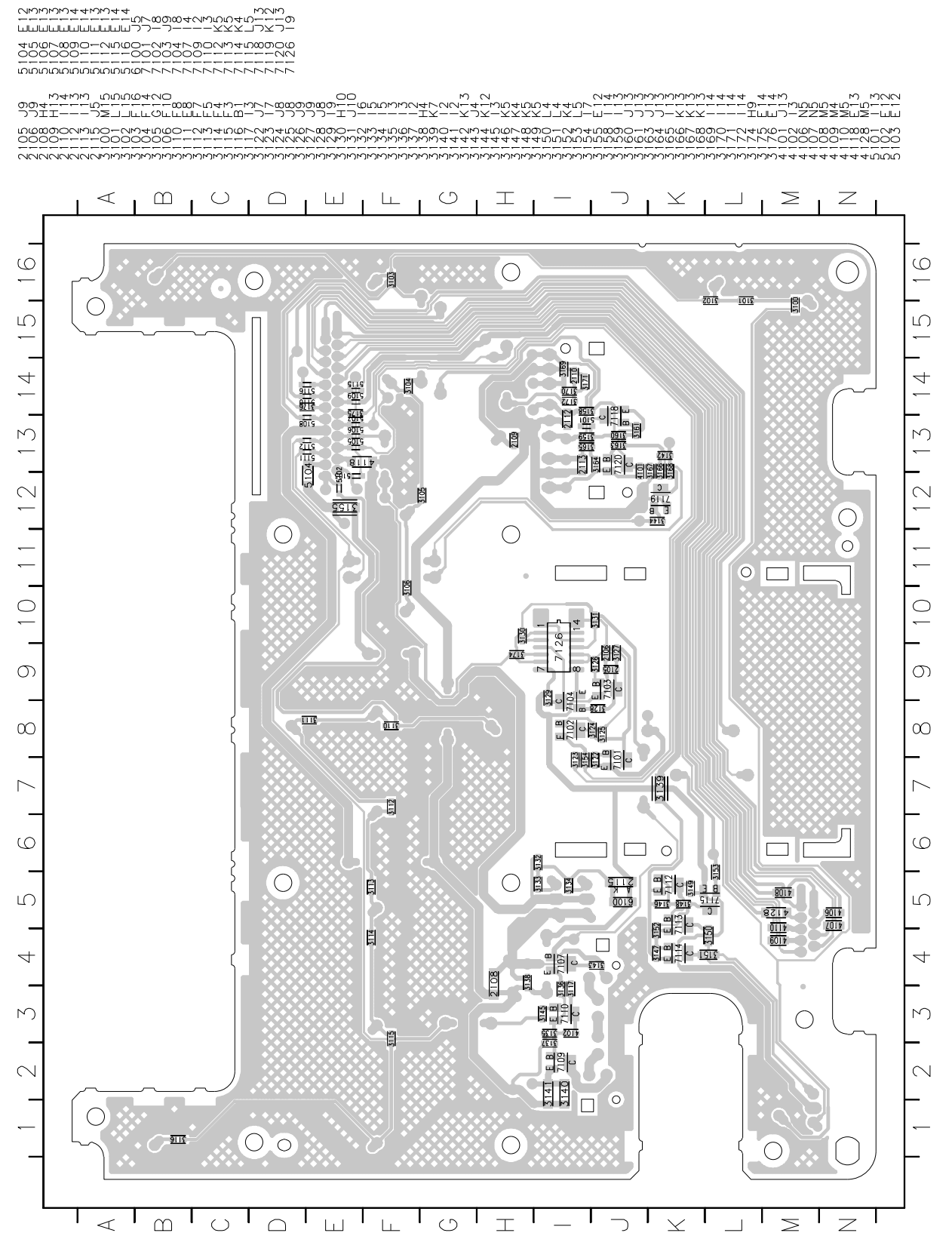
[illegible]

PB-KEYS & IR - Circuit Diagram

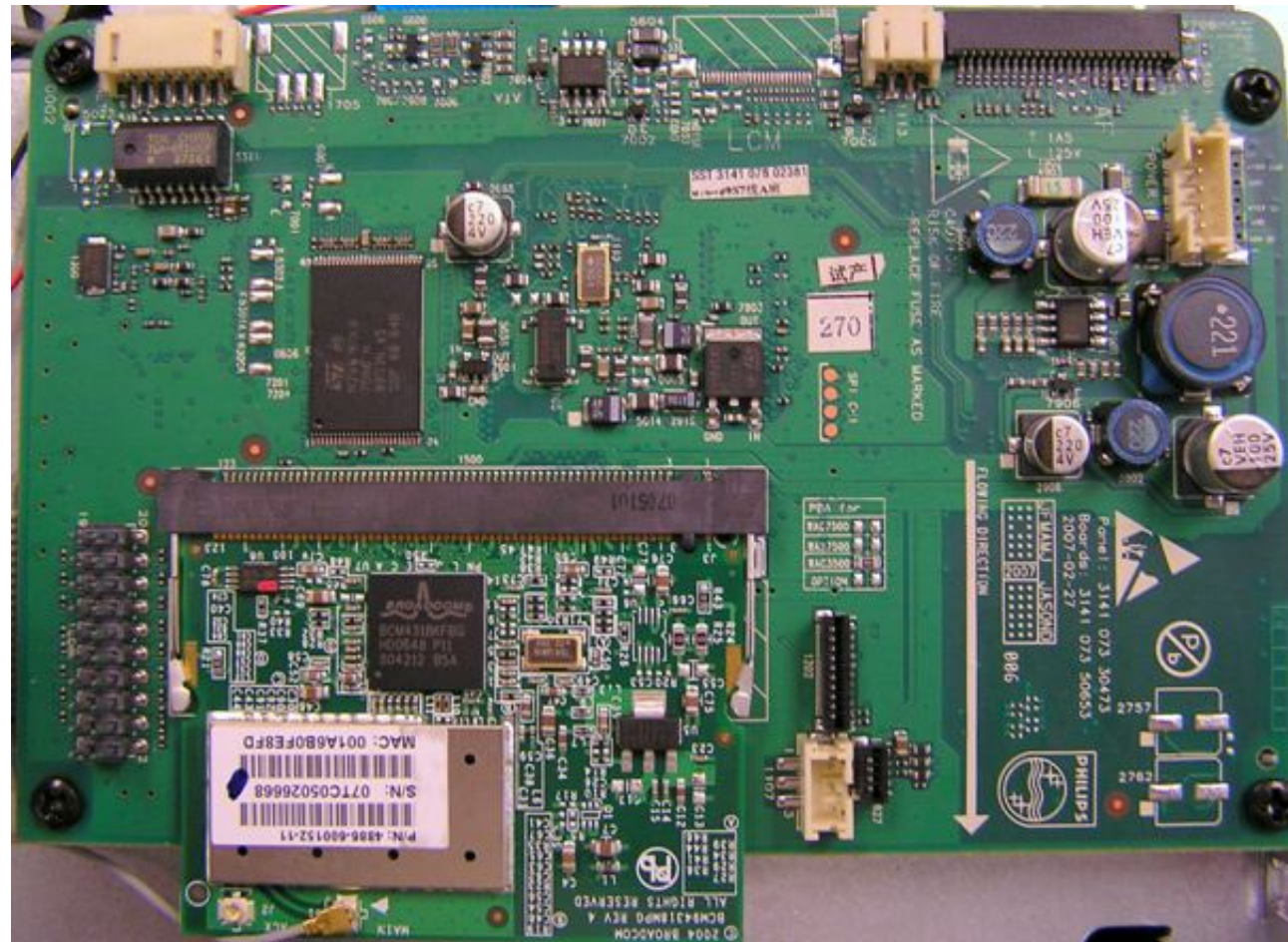


0033 F6	5111 E2
0034 H6	5112 E2
0035 G9	5115 F2
0036 C12	5116 F2
1100 G1	6100 B11
1101 D1	6101 D13
1110 F4	6102 D13
1111 G4	6103 C13
1112 G4	6104 C13
1113 H5	6111-1 H12
1114 H5	6111-2 H13
1115 H5	7101 B7
1116 G5	7102 C7
1117 G5	7103 B8
1118 G5	7104 C9
1119 F5	7105 A12
1120 H4	7106 A12
1121 F5	7107 C12
1122 H4	7109 D13
1123 H4	7110 D12
1124 F4	7112 G12
1125 G4	7113 G12
2105 B9	7114 G13
2106 C10	7115 H11
2107 B12	7116 G10
2108 B13	7117 G6
2109 C3	7118 G7
2110 C3	7119 H8
2111 C3	7120 G9
2112 G7	7121 C2
2113 G9	7126-1 C11
2115 B12	7126-2 C10
3100 F4	7126-3 C8
3101 G4	7126-4 C10
3102 G4	F103 C12
3103 G4	F105 B13
3104 H4	F106 E13
3105 H4	F110 D1
3106 H4	F111 E1
3110 F4	F112 E2
3111 G4	F113 E1
3112 G4	F114 E2
3113 G4	F115 E2
3114 H4	F116 E2
3115 H4	F117 E2
3116 H4	F118 E2
3117 D12	F119 E2
3122 C7	F120 E2
3123 C6	F121 E2
3124 C7	F122 E2
3125 C8	F123 E2
3126 B8	F124 E2
3127 B8	F125 C2
3128 B9	F126 C2
3129 C9	F127 F7
3130 B11	F128 G7
3131 C11	F129 F9
3132 A11	F130 G9
3133 B12	F140 F1
3134 B12	F141 F2
3135 E12	
3136 D12	
3137 E12	
3138 B13	
3139 E3	
3140 E13	
3141 E13	
3142 I7	
3143 C12	
3144 H7	
3145 D11	
3146 G12	
3147 G13	
3148 H12	
3149 G12	
3150 H12	
3151 H13	
3152 G13	
3153 H11	
3154 C7	
3155 A11	
3158 F7	
3159 G7	
3160 G8	
3161 G8	
3163 G8	
3164 G9	
3165 F9	
3166 I9	
3167 I7	
3168 I6	
3169 C2	
3170 C2	
3171 C3	
3172 C4	
3174 D9	
3175 E2	
3176 E2	
4101 G9	
4102 D12	
5101 C4	
5102 D2	
5103 E2	
5104 E2	
5105 E2	
5106 E2	
5107 E2	
5108 E2	
5109 E2	
5110 E2	









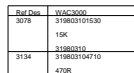
# HAS MODULE

This module can only be repaired on component level  
at authorized service workshop.

In case of defects please replace the entire board resp. the WiFi Card.

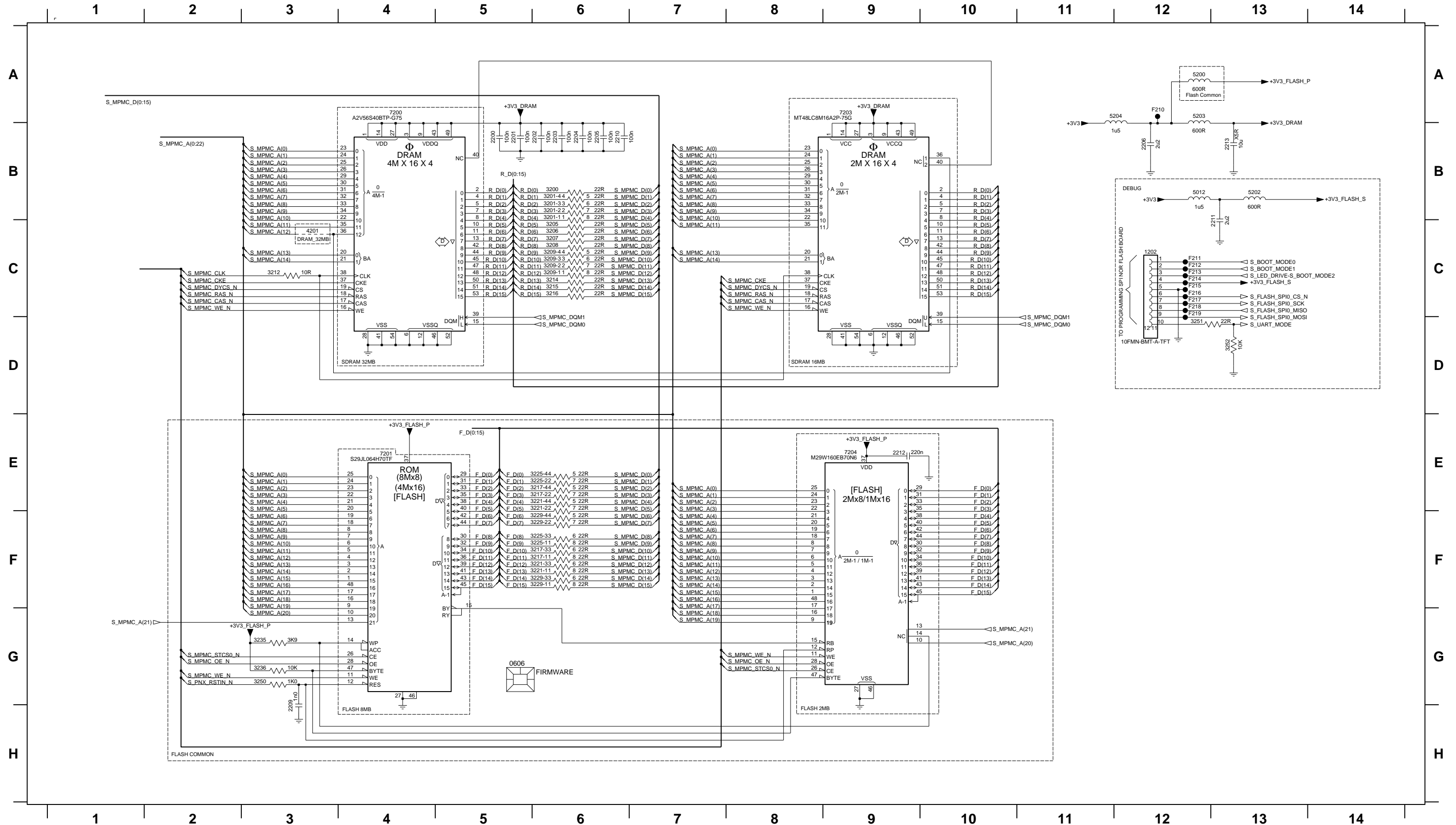
3141 078 02381 .....HAS Printed Board Assembly - Europe

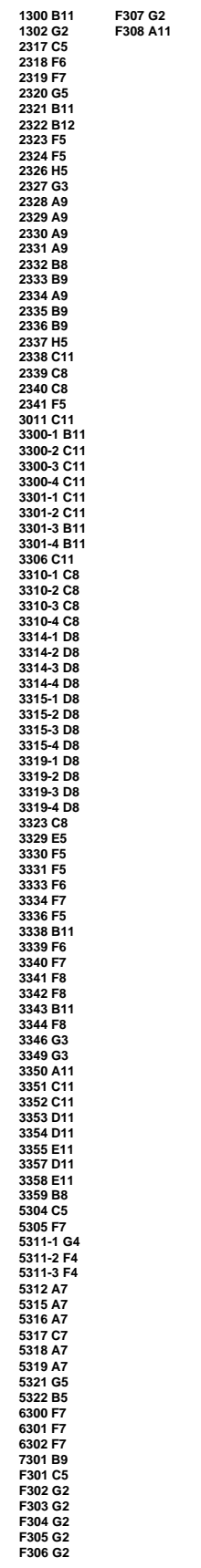
2822 065 01728 .....WiFi Card Mini PCI

[illegible]

## CIRCUIT DIAGRAM - Part 2 ( FLASH &amp; SDRAM )

0606 G5    2201 B5    2204 B6    2209 H3    2212 E9    3201-1 B6    3201-4 B6    3207 C6    3209-2 C6    3212 C3    3216 C6    3217-3 F6    3221-2 E6    3225-1 F6    3225-4 E6    3229-3 F6    3236 G3    3252 D13    5200 A12    5204 A12    7203 A9    F211 C12    F214 C12    F217 C12  
1202 C12    2202 B6    2205 B6    2210 B6    2213 B13    3201-2 B6    3205 C6    3208 C6    3209-3 C6    3214 C6    3217-1 F6    3221-3 F6    3225-2 E6    3229-1 F6    3229-4 F6    3250 G3    4201 C3    5202 B13    5203 A12    7204 E9    F212 C12    F215 C12    F218 C12  
2200 B5    2203 B6    2206 B12    2211 C13    3200 B6    3201-3 B6    3206 C6    3209-1 C6    3209-4 C6    3215 C6    3217-2 E6    3221-1 F6    3221-4 E6    3225-3 F6    3229-2 F6    3235 G3    3251 D12    5012 B12    5201 A12    7201 E4    F210 A12    F213 C12    F216 C12    F219 C12



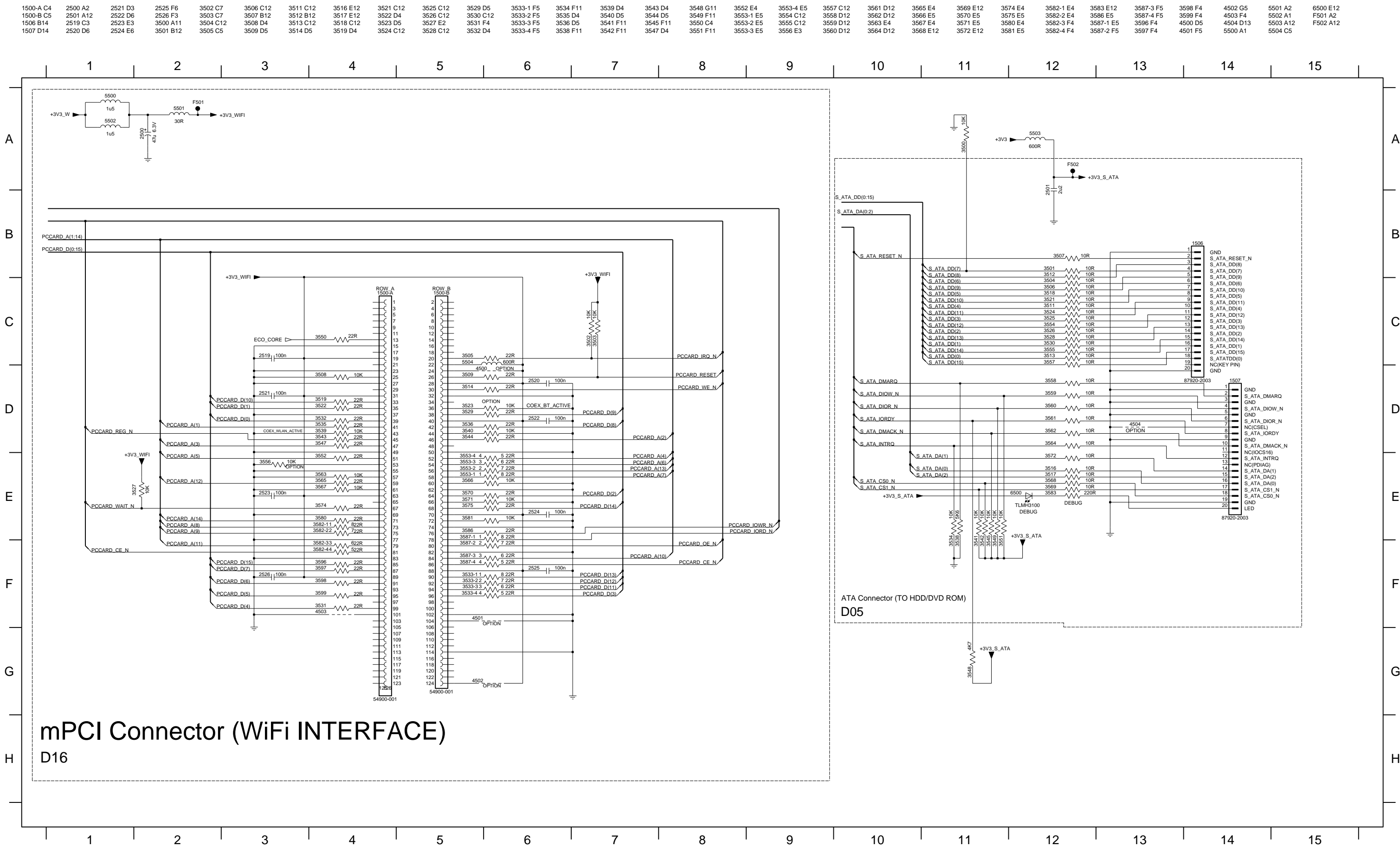


The schematic diagram illustrates the RDS receiver circuit, centered around the SAA6588T/V2+ chip. The chip is connected to the system's power supply and data lines as follows:

- Power Supply:** The chip's VDDA and VDD pins are connected to a +5V supply through a 470nF capacitor (2411) and a 202pF capacitor (2412). The VSSA and VSSD pins are connected to ground.
- Input/Output:** The RDS\_IN pin is connected to the system's RDS\_IN signal through a 330pF capacitor (2417). The RDS\_IRQ pin is connected to the system's RDS\_IRQ signal through a 470K resistor (3416) and a 100nF capacitor (2416).
- Data Lines:** The SCL and SDA pins are connected to the system's SCL\_MASTER1 and SDA\_MASTER1 signals through 220R resistors (3417 and 3418).
- Other Connections:** The chip's OSC pin is connected to ground through a 1K2 resistor (3414) and a 1n0 capacitor (2415). The MPX pin is connected to ground through a 47pF capacitor (2418). The CIN pin is connected to ground through a 1n0 capacitor (2420). The SCOUT pin is connected to ground through a 560pF capacitor (2421).

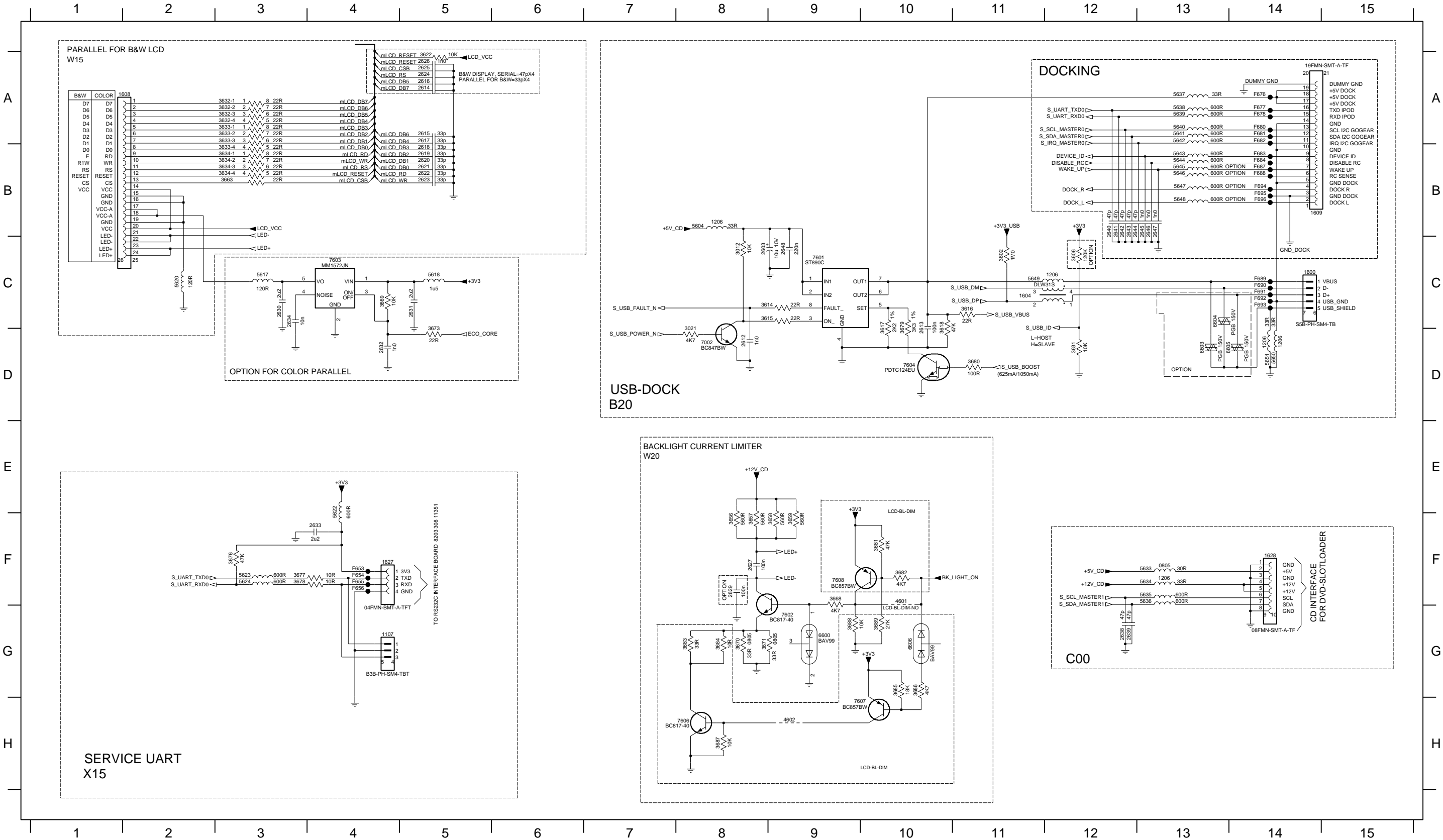
The diagram also shows the connection of the RDS chip to the system's power supply and data lines, including the connection of the RDS chip to the system's power supply and data lines.

1106 A4  
1411 D2  
2401 A3  
2402 B3  
2403 B3  
2404 B3  
2405 B3  
2406 B3  
2411 C3  
2412 C4  
2413 D2  
2414 D2  
2415 D3  
2416 D5  
2417 D2  
2418 E2  
2419 D4  
2420 E3  
2421 E3  
2425 E5  
2426 E6  
3401 B3  
3402 B3  
3411 C5  
3412 D3  
3413 D4  
3414 D3  
3415 D4  
3416 D5  
3417 E5  
3418 E5  
4401 A3  
4403 A3  
5401 A4  
5402 B3  
5403 B3  
5404 B3  
5405 B3  
5411 C4  
5412 C4  
5413 A4  
7411 D3  
T071 C5



CIRCUIT DIAGRAM - Part 6 ( I/O Interface )

1107 G4	1627 F4	2614 A5	2619 B5	2624 A5	2630 C3	2638 G12	2643 B12	2648 C9	3614 C8	3622 A5	3632-4 A3	3634-1 B3	3657 F8	3669 C4	3677 F3	3682 F10	3687 H8	5604 B8	5623 F3	5636 F13	5641 A13	5646 B13	5651 D14	6606 G10	7604 D10	F654 F4	F678 A14	F684 B14	F691 C14	F696 B14	
1600 C14	1628 F14	2615 A5	2620 B5	2625 A5	2631 C5	2639 G12	2644 B13	3012 C8	3615 C8	3631 D12	3633-1 A3	3634-2 B3	3658 F9	3670 G8	3678 F3	3683 G8	3688 G9	5617 C3	5624 F3	5637 A13	5642 A13	5647 B13	5652 D14	6600 G9	7002 D8	7606 H8	F655 F4	F680 A14	F687 B14	F692 C14	
1604 C11	2603 C8	2616 A5	2621 B5	2626 A5	2632 D4	2640 B12	2645 B13	3021 D8	3616 C11	3632-1 A3	3633-2 A3	3634-3 B3	3659 F9	3671 G8	3679 C10	3684 G8	3689 G10	5618 C5	5633 F13	5638 A13	5643 B13	5648 B13	5653 D14	6603 D13	7601 C9	7607 H10	F656 F4	F681 A14	F688 B14	F693 C14	
1608 A2	2612 D8	2617 A5	2622 B5	2627 F8	2633 F4	2641 B12	2646 B13	3602 C11	3617 C10	3632-2 A3	3633-3 A3	3634-4 B3	3663 B3	3673 D5	3680 D11	3685 G10	4601 F10	5620 C2	5634 F13	5639 A13	5644 B13	5649 C11	5654 D14	6604 C13	7602 G9	7608 F9	F657 A14	F682 A14	F689 C14	F694 B14	
1609 B14	2613 C10	2618 B5	2623 B5	2629 F8	2634 C3	2642 B12	2647 B13	3606 C12	3618 C10	3632-3 A3	3633-4 B3	3656 F8	3668 F9	3676 F3	3681 F10	3686 G10	4602 H9	5622 E4	5635 F13	5640 A13	5645 B13	5650 D14	6605 D14	7603 C4	F653 F4	F677 A14	F683 B14	F690 C14	F695 B14		



Ref Des	LCD-BL-DIM	LCD-BL-DIM-NO
3670	319802151010	319802153390
	0805	0805
	100R	33R

BK_LIGHT_ON	DIM NO	DIM
1	ON	OFF
HZ	-	MEDIUM
0	OFF	HIGH

The image displays a complex PCB layout for a digital audio output circuit, organized into several functional blocks. The layout is overlaid with a grid system, with columns numbered 1 through 14 and rows numbered 1 through 14.

**Functional Blocks and Components:**

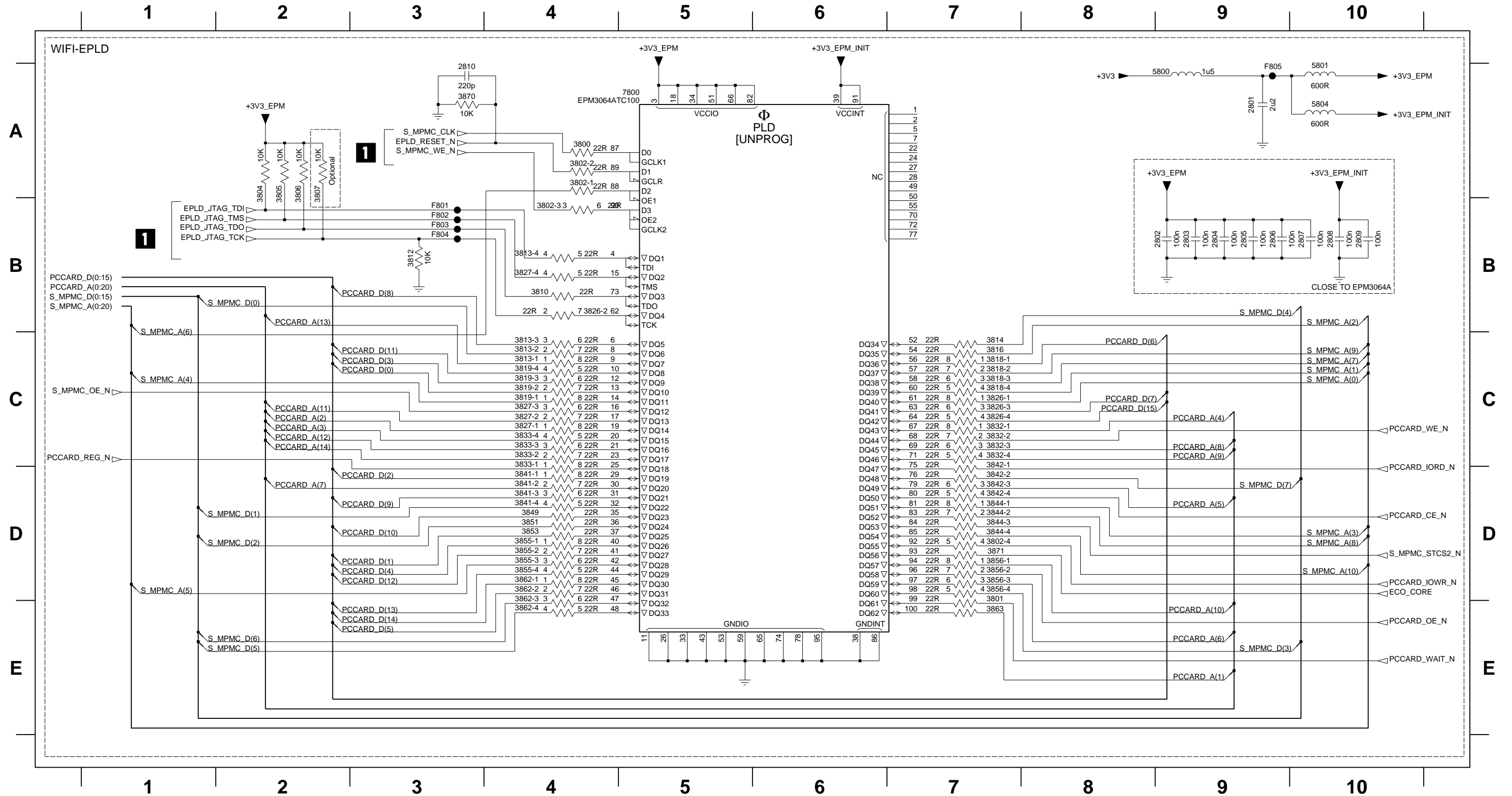
- DIGITAL AUDIO OUTPUT U70:** Located at the top left, this block includes components like 7712-1, 74LVU04PW, 7711, BSH103, 7713, TDA8579T, and various resistors and capacitors for signal processing and level shifting.
- SOURCE SELECTOR M00:** Located in the middle left, this block features a multiplexer (MDX) and various resistors and capacitors for signal selection and routing.
- LINE IN ISOLATION(GND) M60:** Located in the middle right, this block includes a multiplexer (MDX) and various resistors and capacitors for signal isolation and routing.
- AF OUT ISOLATION(GND) M50:** Located at the bottom left, this block features a multiplexer (MDX) and various resistors and capacitors for signal isolation and routing.
- iPOD ISOLATION(GND) M70:** Located at the bottom right, this block includes a multiplexer (MDX) and various resistors and capacitors for signal isolation and routing.
- Source Selectors S10:** Located on the far right, these blocks include various resistors and capacitors for signal selection and routing.

The layout includes numerous components, resistors, capacitors, and integrated circuits, with a grid system for component placement. The components are labeled with their part numbers and values, and the grid system is used to indicate their location on the PCB.

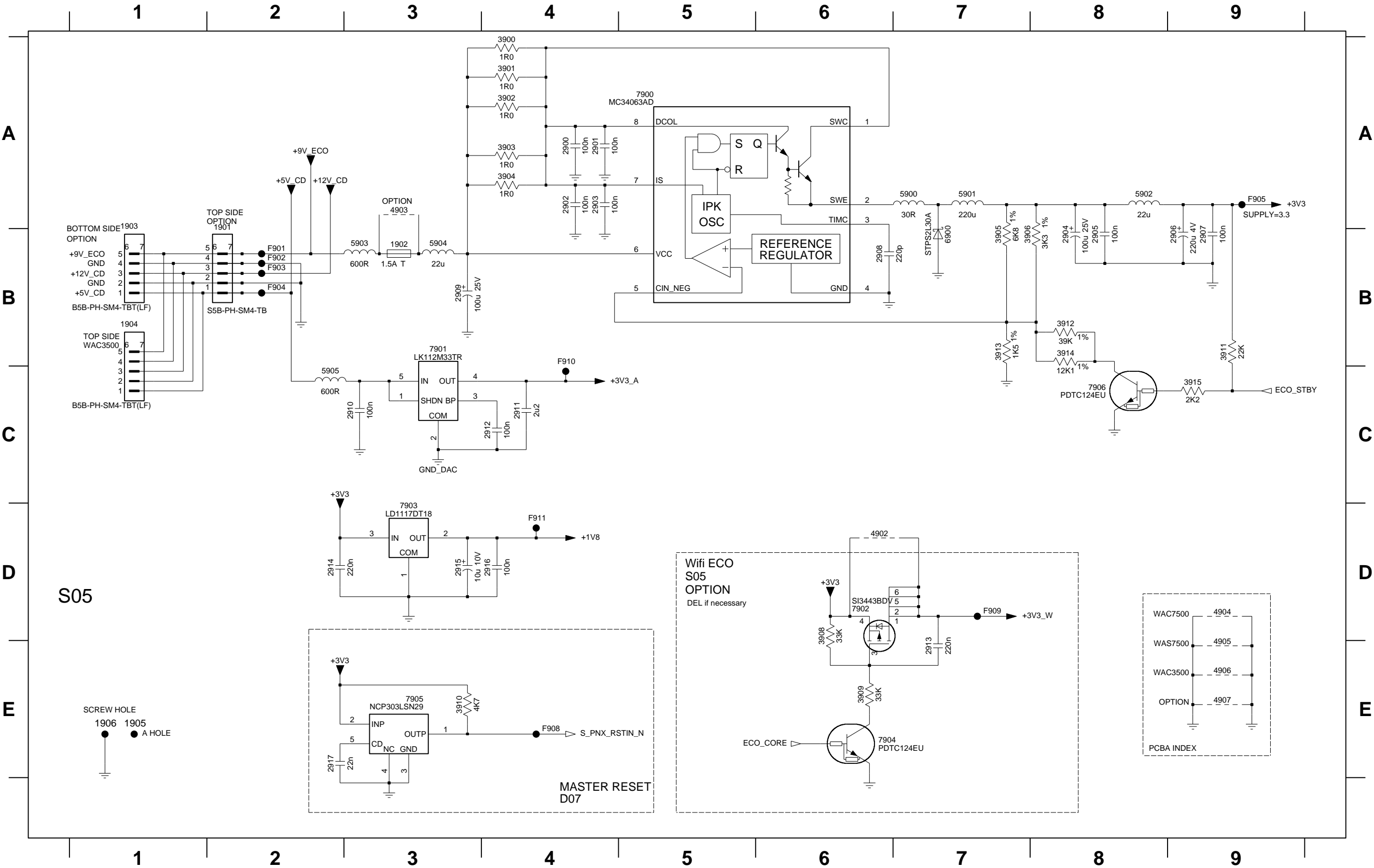
1705 B10	3770 B6
1706 G13	3771 C4
2703 B5	3772 C4
2704 C5	3773 D4
2705 D9	3774 D4
2706 E10	3775 E4
2707 E7	3776 E4
2708 E10	3777 E4
2709 E13	3778 E4
2710 E10	3779 E4
2711 E10	3780 E4
2712 E7	3781 E4
2713 E10	3782 E4
2714 F8	3783 F4
2715 F9	3784 F5
2716 G8	3785 F4
2717 G4	3786 F5
2719 G6	3787 G3
2720 G8	3788 G3
2721 G5	3789 H13
2722 G7	3790 H13
2723 G5	3791 H13
2724 G9	3792 H13
2725 H9	3793 E7
2727 H7	3794 E7
2728 H5	4703 D2
2731 H9	4706 E2
2734 H7	4707 E2
2735 H7	4709 E2
2736 H7	4711 G5
2737 H4	4715 H5
2738 H9	4716 G13
2739 H11	4717 G13
2740 H5	5022 B8
2741 I7	5714 E9
2742 H5	5715 E10
2743 I9	5716 E9
2744 I5	5717 G7
2745 G4	5719 H11
2747 G11	5720 H2
2748 I12	5721 H11
2749 I12	5724 H2
2750 I12	5726 I7
2751 I12	5727 H13
2752 I12	5730 H13
2753 A12	5731 H13
2754 B13	5734 H13
2755 B11	5735 H13
2756 B13	5736 H13
2757 B13	5738 A7
2758 B13	5740 A11
2759 B11	5741 B13
2760 C13	5742 B13
2762 C11	5743 B13
2763 C12	5744 D4
2764 A7	5745 E4
2765 B8	5746 E4
2766 B9	5747 E4
2767 B9	5748 F5
2768 D3	5750 G2
2769 D3	5751 H2
2770 D2	6700 B5
2771 E2	7704 D13
2772 E3	7705 D9
2773 B9	7706 F3
2774 C8	7707 G3
2775 F5	7708-1 G5
3706 B5	7708-2 H5
3712 B6	7709 G4
3713 C5	7710 G8
3715 B6	7711 B5
3716 D12	7712-1 A7
3717 D12	7713 A12
3718 E7	7714 F5
3719 D12	7715 D3
3720 E12	7716 D4
3722 E7	F702 B4
3724 F3	F704 D13
3725 F3	F755 I3
3726 G8	F762 E7
3727 F2	F763 E7
3729 G2	F764 F5
3730 G10	F765 B9
3731 G6	F766 B9
3732 H5	F767 B9
3733 H6	
3734 H11	
3735 H11	
3737 I3	
3738 I3	
3739 I3	
3740 I3	
3741 I3	
3742 I3	
3743 H10	
3744 I6	
3745 I5	
3746 I6	
3747 G3	
3752 H13	
3753 H13	
3754 H13	
3755 I13	
3756 I13	
3757 I13	
3758 I13	
3759 G12	
3760 G12	
3761 G12	
3762 H9	
3763 I9	
3766 C5	
3767 A6	
3768 B9	
3769 B7	



2801 A9	2806 B9	3800 A4	3802-4 D7	3810 B4	3813-4 B4	3818-3 C7	3819-4 C4	3827-1 C4	3832-2 C7	3833-3 C4	3841-4 D4	3844-1 D7	3851 D4	3855-4 D4	3862-1 D4	3870 A3	7800 A5	F805 A9
2802 B9	2807 B10	3801 E7	3804 A2	3812 B3	3814 C7	3818-4 C7	3826-1 C7	3827-2 C4	3832-3 C7	3833-4 C4	3842-1 D7	3844-2 D7	3853 D4	3856-1 D7	3862-2 D4	3871 D7	F801 B3	
2803 B9	2808 B10	3802-1 A4	3805 A2	3813-1 C4	3816 C7	3819-1 C4	3826-2 B4	3827-3 C4	3832-4 C7	3841-1 D4	3842-2 D7	3844-3 D7	3855-1 D4	3856-2 D7	3862-3 E4	5800 A9	F802 B3	
2804 B9	2809 B10	3802-2 A4	3806 A2	3813-2 C4	3818-1 C7	3819-2 C4	3826-3 C4	3827-4 B4	3833-1 D4	3841-2 D4	3842-3 D7	3844-4 D7	3855-2 D4	3856-3 D7	3862-4 E4	5801 A10	F803 B3	
2805 B9	2810 A3	3802-3 B4	3807 A2	3813-3 C4	3818-2 C7	3819-3 C4	3826-4 C7	3832-1 C7	3833-2 C4	3841-3 D4	3842-4 D7	3849 D4	3855-3 D4	3856-4 D7	3863 E7	5804 A10	F804 B3	

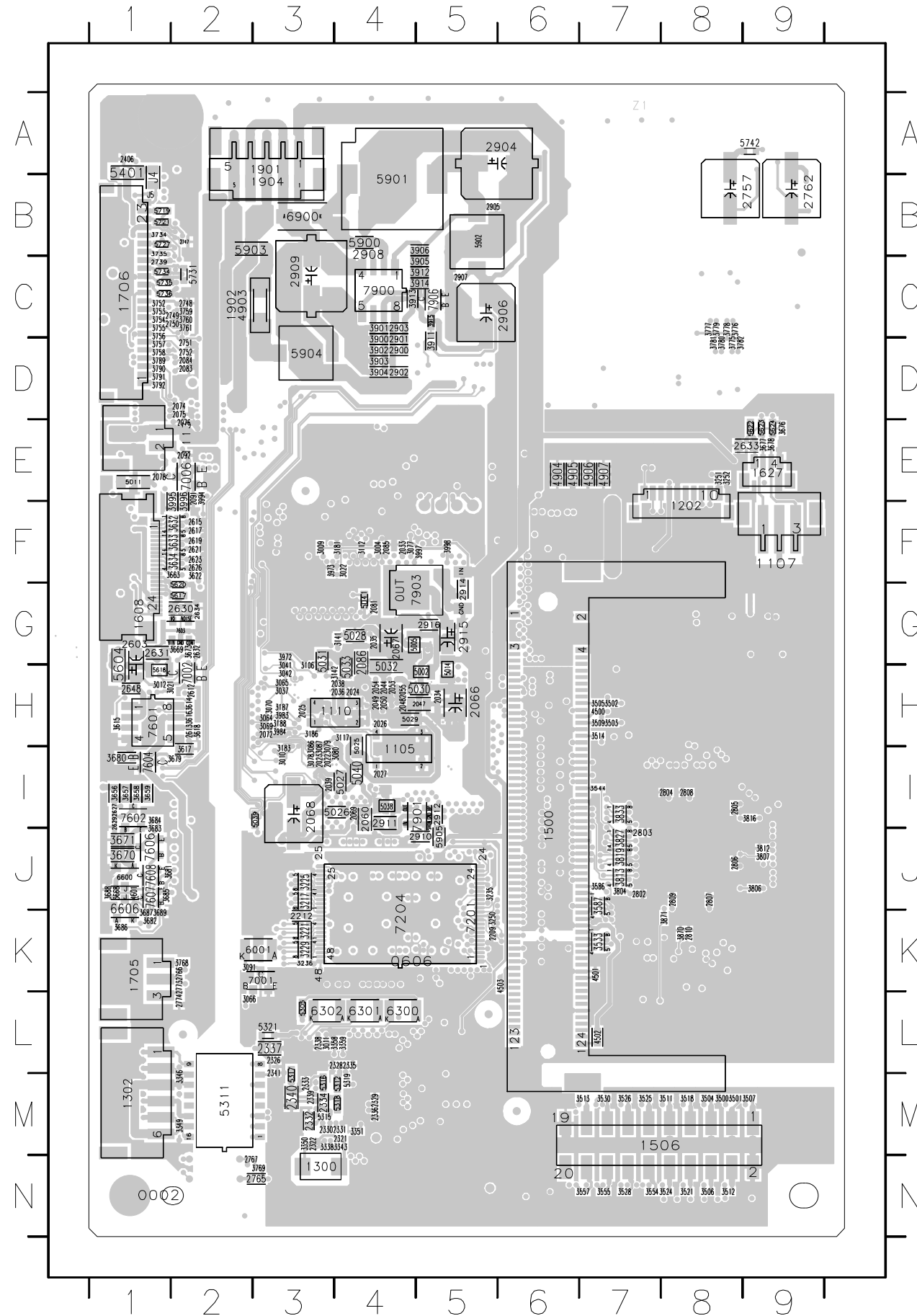


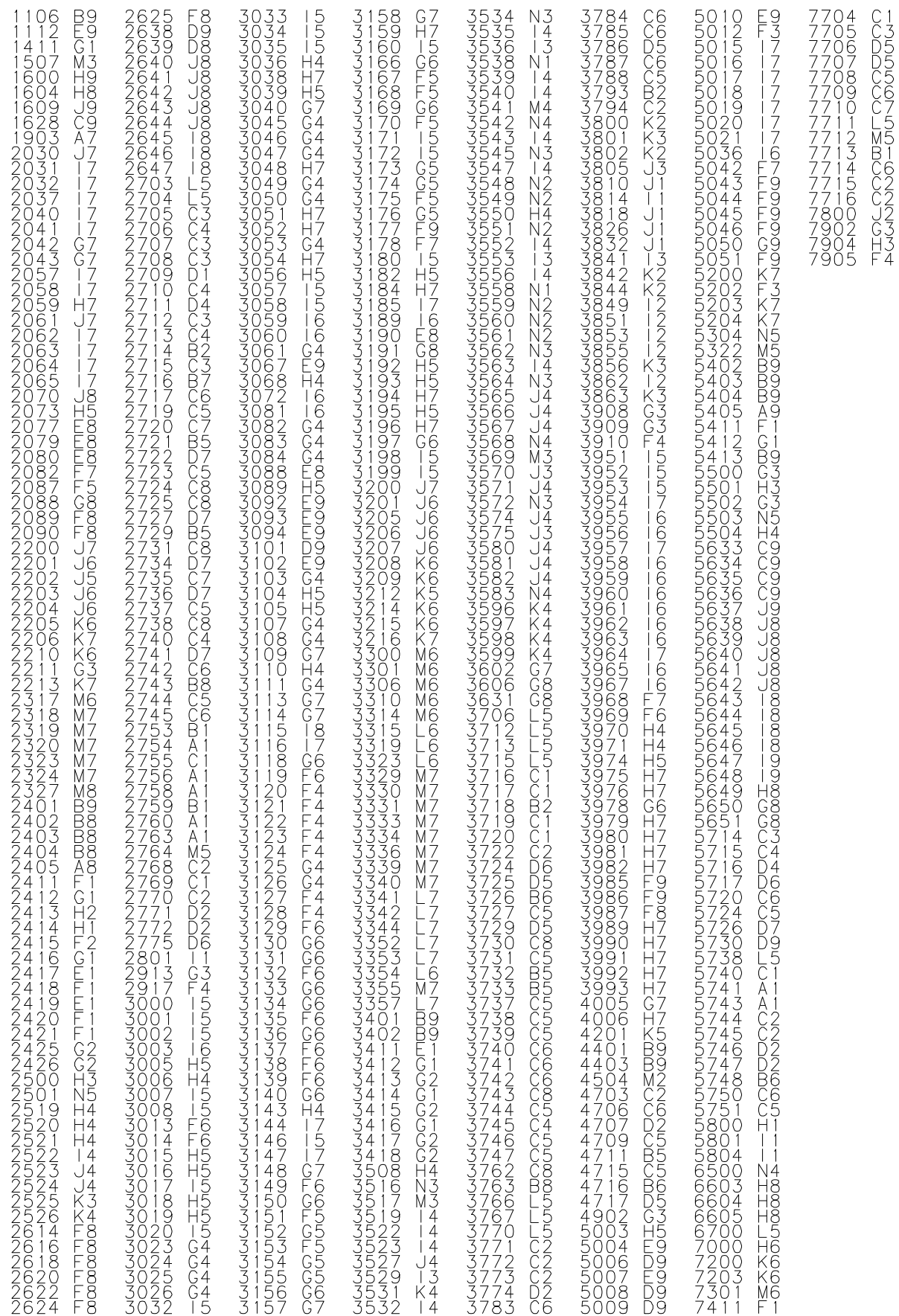
CIRCUIT DIAGRAM - Part 9 ( SUPPLY )



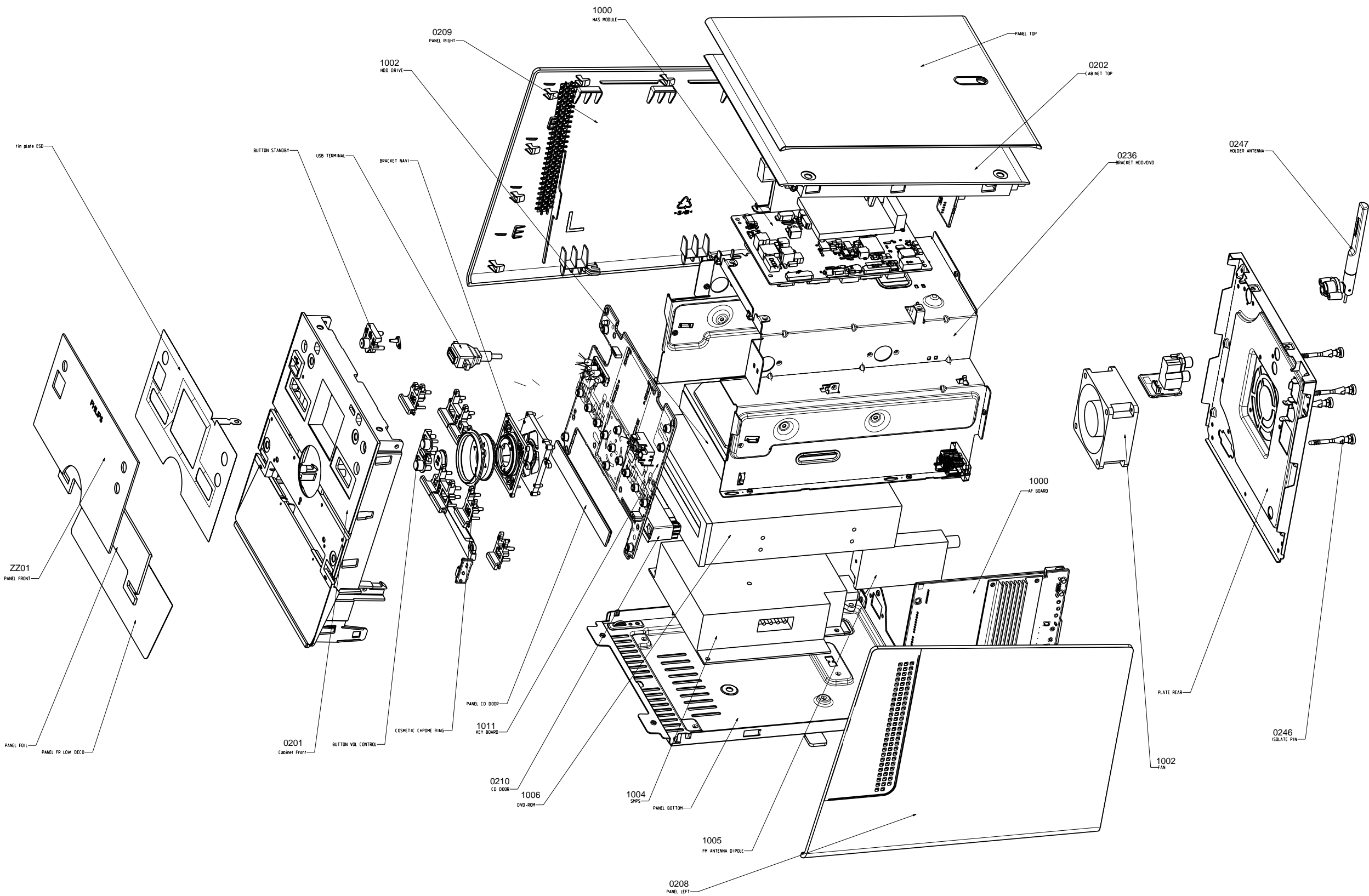
- 1901 A2
- 1902 B3
- 1903 A1
- 1904 B1
- 1905 E1
- 1906 E1
- 2900 A4
- 2901 A4
- 2902 A4
- 2903 A4
- 2904 B8
- 2905 B8
- 2906 B9
- 2907 B9
- 2908 B6
- 2909 B3
- 2910 C3
- 2911 C4
- 2912 C4
- 2913 E7
- 2914 D2
- 2915 D3
- 2916 D4
- 2917 E2
- 3900 A4
- 3901 A4
- 3902 A4
- 3903 A4
- 3904 A4
- 3905 B7
- 3906 B7
- 3908 D6
- 3909 E6
- 3910 E3
- 3911 B9
- 3912 B8
- 3913 B7
- 3914 B8
- 3915 C9
- 4902 D6
- 4903 A3
- 4904 D9
- 4905 E9
- 4906 E9
- 4907 E9
- 5900 A7
- 5901 A7
- 5902 A8
- 5903 B3
- 5904 B3
- 5905 C2
- 6900 B7
- 7900 A5
- 7901 B3
- 7902 D6
- 7903 D3
- 7904 E6
- 7905 E3
- 7906 C8
- F901 B2
- F902 B2
- F903 B2
- F904 B2
- F905 A9
- F908 E4
- F909 D7
- F910 B4
- F911 D4

### LAYOUT DIAGRAM (side A)





EXPLODED VIEW DIAGRAM



## ACCESSORIES PARTS LIST

0455	2422 076 00652	CBLE CINCH 1M5 CINCH WHRD B
0456	2422 076 00687	ANT FM DIP SD-2380 B
0457	3141 078 70301	INSTALLER-SW(CDR) WAC-3500D/12
0458	2422 076 00569	CBLE LAN 1M5 LAN RJ45 B
0460	3139 238 14861	PROD ASSY RC2023612/01 PKD
0469	△ 2422 070 98151	MAINSCORD EUR 2A5 1M5 DET 2P B
0469	△ 2422 070 98248	MAINSCORD AUS/NZ 1M5 DET 2P B
0469	△ 2422 070 98151	MAINSCORD EUR 2A5 1M5 DET 2P B
0469	△ 2422 070 98147	MAINSCORD UK 2A5 1M5 DET 2P B
0470	3141 078 50181	BOX SPK ASSY WAC3500D
0471	3141 078 70321	Docking DC1050/00

## MECHNICAL & ELECTRICAL PARTS LIST

0201	3141 077 51181	CAB F PRE-ASSY WAC3500D/12
0202	3141 077 51191	CABINET TOP PRE-ASSY WAC3500D
0208	3141 074 03761	PANEL LEFT WAC3500/12
0209	3141 074 03771	PANEL RIGHT WAC3500/12
0210	3141 077 51201	CD DOOR PRE-ASSY WAC3500D
0211	3141 074 01841	FOOT RUBBER WAC5
0236	3141 071 20641	BRACKET HDD/DVD WAC3500
0237	3141 074 04311	DAMPER HDD D25 WAC3500D
0245	3141 074 04301	PAD SMPS WAC3500D
0246	3141 074 04331	ISOLATOR PIN WAC3500D
0247	3141 074 03851	HOLDER ANTENNA WAC3500D
1000	3141 078 02311	PBAS AF & AMP WAC3500D/RDS
1002	2822 031 00065	FAN 12VDC 0.8W 3100RPM B
1000	3141 078 02381	PBAS HasLi-07(WAC3K5D_EU_RDS)
1003	2822 065 01728	WMOD WIFIG MPC1 MP-G-BR-05 Y
1002	3141 070 50421	PRG. ASSY HDD WAC3500D V1.0
1004	△ 3141 078 50171	SMPS 135VA - WAC3500D/55
1004	△ 3141 078 50231	SMPS 135VA - WAC3500D/05
1005	2422 542 00049	TUN FM ENG07826QF EUR B
1006	3141 070 50401	PRG.ASSY DVDROM SHD-16P1S
1006	3141 070 50411	PRG.ASSY DVDROM LH-16D1P
1007	2722 171 00524	LCD MODULE PCE2035-02 (VARI) Y
1008	2422 076 00717	ANT WIFI 2450MHZ 50R Y
1009	2422 549 00668	ANT WIFI WAS5 B
1011	3141 078 02331	PBAS Keys & IR WAC3500D
1012	3141 078 02341	PBAS - AUDIO in/out WAC3500D
1013	3141 078 02351	PBAS 7 - Headphone WAC3500D
1014	3141 078 02361	PBAS 6 - WiFi-light WAC3500D
8003	3141 070 21691	FFC 10P/430/10P BD 1.25mm FOLD
8007	3141 070 21711	FFC 19P/180/19P BD 1MMP FOLD
8008	3141 070 21681	FFC 23P/200/23P 1MM BD FOLD
8011	3141 070 21701	FFC 26P/280/26P BD 1MM FOLD
8012	3141 070 21621	CBLE 5P PH/250 /USB-A (REC)
8013	3141 070 21721	CBLE IDE 40P/165/20P
8017	3141 070 21661	CBLE PH 02P/340/02P PH 26ST BK
ZZ01	3141 079 43291	PANEL FRONT WAC3500

**Note: Only these parts mentioned in the list are normal service parts.**